



# **CTE Course Codes & Clearing Endorsements**

**(Formerly Appendix D)**

**2018-2019**

**Nebraska  
Department of  
Education**

**GENERAL INFORMATION**

Nebraska approval regulations (Rule 14) and accreditation regulations (Rule 10) require that certain percentages of F.T.E. (Full Time Equivalency) elementary and middle grade teachers hold appropriate endorsements and that certain percentages of instructional units at the secondary grades be assigned to teachers holding appropriate endorsements. For teachers to be considered appropriately endorsed for their assignments, they must teach the grade levels indicated on their certificate. The grade level designations are shown on the following chart.

Certificate/Endorsement Level

<b>LEVEL</b>	<b>Appropriate for the following grades</b>
00	PK
01	Pre Primary – 3 all schools
02	K-6
03	K-8
04	7-9
05	K-9
06	7-12
07	K-12
08	9-12
09	4-9 This level will be phased out over time. See level 22 (5-9) below.
10	B-12
11	B-K
12	B-3
13	PK-6
14	PK-8
15	PK-12
16	10-12
17	PK-9
18	6-12
19	B-21
20	PK-3
21	B-PK
22	5-9

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Revised March 2018</b>
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*The following pages show courses or subjects taught in Nebraska schools and the appropriate endorsements for those subjects or courses. In instances where no specific endorsement is required, the “level” of endorsement must still be appropriate for the assignment.*

The following items describe special cases or circumstances.

**Middle Grades:**

- 1) When grades five through eight are designated as middle grades, either an elementary or a middle level endorsement is appropriate.
- 2) A middle level endorsement clears any subject area and course code for grades 5-9.
- 3) For grades seven and eight, a middle level endorsement or an appropriate secondary endorsement is appropriate.
- 4) Teachers holding an elementary endorsement may teach in grades seven and eight if they acquire six credit hours per year towards a middle level endorsement or if they participate in staff development in accordance with a local mission or plan for education of middle grade students.
- 5) Teachers holding a content area endorsement at the secondary level may teach grade six in that content area if they acquire six credit hours per year toward the elementary or middle level endorsement or participate in staff development in accordance with a local mission and plan for education of middle grade students.
- 6) When grade nine is designated as a middle grade, an appropriate secondary endorsement or a middle level endorsement covers a ninth-grade teaching assignment.
- 7) Secondary teachers may be assigned to integrated courses or curriculum in grades seven through nine if they hold an endorsement for any of the subjects or fields included in the course. See 10.007.02A2A
- 8) Teachers not holding an appropriate endorsement may be assigned to the middle grades if they acquire six credit hours per year towards a middle level endorsement.

**Secondary Grades:**

- 9) In secondary grades, teachers assigned to integrated courses or curriculum are considered appropriately endorsed if they hold an endorsement for any of the subjects or fields included in the course.
- 10) Course descriptions in this manual shown for grades 10, 11, and 12 are intended to describe higher level courses. If, however, the course is taught at a 9<sup>th</sup> grade level, the appropriate middle level endorsement will cover the assignment.

**Elementary Grades:**

- 11) An elementary endorsement is appropriate for courses taught in grades K-8.

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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>		

### INTRODUCTION TO AG, FOOD & NATURAL RESOURCES

Short Name

Course Code

**AG/EN-INTR**

**011000**

The introductory course for the Agriculture, Food and Natural Resources Career Cluster providing a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of agriculture, food and natural resources careers, cluster foundation knowledge and skills, introduction to leadership development, the FFA organization and career exploration. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

### ANIMAL SCIENCE

Short Name

Course Code

**ANI SCI**

**011004**

A course focusing on the basic scientific principles and processes that are involved in animal physiology, breeding, nutrition, and care in preparation for an animal systems career. Topics include animal diseases, introduction to animal science, animal nutrition, animal science issues, career opportunities and animal evaluation. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

### LARGE ANIMAL MANAGEMENT

Short Name

Course Code

**LG ANIMGMT**

**011005**

This course includes advanced scientific principles and communication skills that build on the knowledge and skills learned in Animal Science. Topics include animal waste management, animal science economics, decision making, global concerns in the industry, genetics, and breeding. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

**AGRICULTURE, FOOD AND NATURAL RESOURCES****SMALL ANIMAL MANAGEMENT**Short NameCourse Code**SML ANIMAL****011006**

A course providing instruction on animal husbandry topics related to companion animals that are served by a veterinarian. This course includes breeding, grooming, care and marketing of companion animals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**PLANT SCIENCE**Short NameCourse Code**PLANT SCI****011007**

This course examines the scientific concepts related to plant systems. Students will consider environmental factors on plant growth. In addition students will examine plant classification, anatomy, physiology, and methods of propagation. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**CROP MANAGEMENT/AGRONOMY**Short NameCourse Code**CROP AGRO****011008**

This course investigates advanced crop production and management topics. Students develop an understanding of fertilization methods, resource management, pest management, technology use, marketing, and world hunger. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**AGRICULTURE, FOOD AND NATURAL RESOURCES****AGRIBUSINESS**Short Name**AGRI BUSN**Course Code**011009**

This course covers skills necessary for entry into employment or furthering education in an agricultural business. The course includes the study of business planning, creating and analyzing financial information, developing business plans, and using sales and marketing principles. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

AGRICULTURE

0100

**AGRICULTURAL ECONOMICS**Short Name**AG ECON**Course Code**011010**

This course covers economic principles that drive agricultural businesses. The course studies the production, distribution, and consumption of agricultural products and the allocation of agricultural resources. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

AGRICULTURE

0100

**AGRICULTURAL SALES & COMMUNICATIONS**Short Name**AG SA/COM**Course Code**011011**

This course covers skills necessary to be able to sell and market agricultural products and the development of effective communication skills. The course includes applying sales and marketing principles through the study of business planning and creating and analyzing financial information. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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### MS INTRODUCTION TO AG, FOOD & NATURAL RESOURCES

Short Name

Course Code

**MSAFNR-INT**

**011012**

This middle school introductory course for the Agriculture, Food and Natural Resources Career Cluster provides a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of agriculture, food and natural resources careers, cluster foundation knowledge and skills, introduction to leadership development, the FFA organization and career exploration.

Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 6-8

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

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MIDDLE GR/AG EDUCATION

1810

### VETERINARY SCIENCE

Short Name

Course Code

**VET SCI**

**011015**

Introduces students to the basics of animal medical care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

### NURSERY AND LANDSCAPE

Short Name

Course Code

**NURS LAND**

**012001**

This course examines the knowledge and skills used to produce and use horticultural plants. Topics include plant identification, fertilization, pest management, soils, and design. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

## AGRICULTURE, FOOD AND NATURAL RESOURCES

## FLORICULTURE

Short NameCourse Code

FLORICUL

012002

This course examines the knowledge and skills used to produce and use floral plants. Topics include plant identification, fertilization, pest management, soils, and design. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

## AGRICULTURE BIOTECHNOLOGY

Short NameCourse Code

AG BIOTECH

012004

A course focusing on students examining extensively the relationship between biotechnology and modern plant production systems. Students identify purposes and methods of genetic modification of plants and the impact of modern plant production on a global scale. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

## AGRIBUSINESS MANAGEMENT AND ENTREPRENEURSHIP

Short NameCourse Code

AG MGT/ENT

012005

This course covers skills necessary for creating and managing an agricultural business. The course includes the study of business planning, creating and analyzing financial information, developing business plans, and applying sales and marketing principles. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

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AGRICULTURE

0100

## AGRICULTURE, FOOD AND NATURAL RESOURCES

### ENVIRONMENTAL AND NATURAL RESOURCES

Short NameCourse Code

ENV/NR

013000

A course that provides an opportunity for students to increase awareness of the close ties among living organisms as well as natural and environmental concerns with the interrelationships of living organisms and the world around us. Students are exposed to careers related to natural resources systems. Students also look closely at Nebraska's natural resources and management techniques. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

AGRICULTURE

0100

### WILDLIFE MANAGEMENT

Short NameCourse Code

WDLIFE MGT

013001

A course that provides students the opportunity to increase awareness of the principles of wildlife management and conservation. Students will closely examine ecological concepts, habitat management, wildlife species identification, and recreational opportunities that the environment and wildlife provide us with. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

AGRICULTURE

0100

### ENVIRONMENTAL AND NATURAL RESOURCES MANAGEMENT

Short NameCourse Code

ENV/NR MGT

013002

A course that provides an opportunity for students to increase awareness of the close ties among living organisms as well as natural and environmental concerns with the interrelationships of living organisms and the world around us. Students will closely examine agencies that regulate our natural resources, explore the relationship between agriculture and natural resources, and develop an understanding of sustainability and the importance of conservation. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

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**AGRICULTURE, FOOD AND NATURAL RESOURCES****FOOD SCIENCE AND SAFETY**Short NameCourse Code**FOOD SCI****014000**

A course that introduces students to the principles, applications and science of food and food processing and production. Students will learn the scientific principles and practice scientific applications involved in the food industry including food science, food processing, microbiology, toxicology, regulations concerning the protection of the food supply and organic production of food and nutrition. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**FOOD PRODUCTS AND TECHNOLOGY**Short NameCourse Code**FOOD PTECH****014001**

This course is an in-depth study of the development of food products from a variety of agricultural industries. Students will study the nutritional value of foods along with applying scientific processes such as microbiology and chemistry to the development of food products, and analyze and select appropriate storage, distribution and consumption of foods. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**POWER, STRUCTURAL AND TECHNICAL FOUNDATIONS**Short NameCourse Code**PST FNDT****016000**

This course introduces selected major areas of agricultural mechanics technology including small engine operation and repair, metal fabrication, woodworking, and electrical wiring. Learning activities include basic understanding, skill development and problem-solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

## AGRICULTURE, FOOD AND NATURAL RESOURCES

## POWER, STRUCTURAL AND TECHNOLOGY SYSTEMS

Short NameCourse Code

POWER TECH

016003

Provides advanced-level experiences in selected major areas of agricultural mechanics technology; includes small engine maintenance and repair, metal fabrication, concrete construction, building construction, plumbing, electrical wiring, maintenance of agricultural machinery, equipment and tractors, and soil and water conservation. Learning activities include basic understanding, skill development and problem-solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

## WELDING

Short NameCourse Code

WELDING

016004

This course provides in-depth study of metal and fabrication with metal products. It also provides the opportunity to explore the careers of agricultural metal fabrication. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food and Natural Resources.

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

## METALS AND FABRICATION

Short NameCourse Code

METAL FAB

016005

This course provides an in-depth study of metals and fabrication with metal products. It also provides the opportunity to explore the careers in agricultural metal fabrication. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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### PRECISION AGRICULTURE AND ENGINEERING

Short Name

Course Code

**PRCS AGENG**

**016006**

This course provides a general study of precision agriculture and the related engineering. It also provides the opportunity to explore the careers in agricultural related to precision agriculture. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

### AGRICULTURAL LEADERSHIP AND CAREER READINESS

Short Name

Course Code

**LEADER**

**017000**

Instruction provided in a semester long leadership, human resource development and related careers course includes leadership in a community, leadership concepts/applications, characteristics of an effective leader, characteristics of an effective manager and related practicum demonstrating contribution to society. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

### CAREERS AND LITERACY OF AGRICULTURE

Short Name

Course Code

**AG CAR LIT**

**018002**

The focus of this course is to provide middle school students with a working knowledge of the Agriculture, Food, and Natural Resources career field of study. Students will experience the seven AFNR pathways, explore careers within these pathways, and focus on their pathway of interest. The course incorporates teachable moments pertaining to the college and career readiness skills found in the center of the Nebraska Career Education Model. Agricultural literacy, risk management, and current trends are also incorporated into the course.

Recommended Level: Middle/Junior High

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

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MIDDLE GR/AG EDUCATION

1810

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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**CASE INTRODUCTION TO AGRICULTURE, FOOD & NATURAL  
RESOURCES**

Short Name

Course Code

**CASE AFNR**

**018060**

Students participating in the Introduction to Agriculture, Food, and Natural Resources course will experience exciting “hands-on” activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. For example, students will work in groups to determine the efficiency and environmental impacts of fuel sources in a practical learning exercise.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 9-10

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

AGRICULTURE

0100

**CASE PLANT SCIENCE**

Short Name

Course Code

**CASE PLANT**

**018061**

The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in plant science so that students may continue through a sequence of courses through high school. Students will work in teams, exploring hands-on projects and activities, to learn the characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their respective careers.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

AGRICULTURE

0100

**CASE ANIMAL SCIENCE**

Short Name

Course Code

**CASE ANML**

**018062**

This course is intended to serve as one of two foundational courses within the CASE™ sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science so that students may continue through a sequence of courses through high school. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

AGRICULTURE

0100

## AGRICULTURE, FOOD AND NATURAL RESOURCES

### CASE ANIMAL & PLANT BIOTECHNOLOGY

Short Name
Course Code

CASE APBIO

018063

Animal and Plant Biotechnology, a specialization course in the CASE Program of Study, provides resources to the teacher to facilitate rigorous instruction and increase the level of student understanding related to biotechnology concepts. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology. Students are expected to become proficient at projects involving micro pipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Research and experimental design will be highlighted as students develop and conduct industry appropriate investigations.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name
Endorsement Number

AGRICULTURE

0100

### CASE NATURAL RESOURCES AND ECOLOGY

Short Name
Course Code

CASE NRECO

018064

Natural Resources and Ecology, a specialized course in the CASE Program of Study, provides students an opportunity to explore natural resources and ecology through hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues surrounding man's interaction with the Earth will be addressed in this course.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name
Endorsement Number

AGRICULTURE

0100

### CASE FOOD SCIENCE AND SAFETY

Short Name
Course Code

CASEFOODSC

018065

Food Science and Safety is a specialization course in the CASE Program of Study. Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students will investigate areas of food science including food safety, food chemistry, food processing, food product development, and marketing.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

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## AGRICULTURE, FOOD AND NATURAL RESOURCES

### CASE AGRICULTURAL POWER AND TECHNOLOGY

Short Name

**CASEAGTECH**

Course Code

**018066**

Agricultural Power and Technology is a foundation level course designed to prepare students for the wide array of career opportunities in agricultural engineering. Students are immersed in inquiry-based exercises that tie in the math and science of agricultural mechanics and engineering.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

### FNS - FOOD PRODUCTION, NUTRITION, AND HEALTH

Short Name

**FOOD PROD**

Course Code

**018080**

This is a project-based foundational course to introduce students to the size and scope of food production, nutrition, and health, and the underlying principles. Students will define the food science industry, describe historical milestones, and analyze how the production, processing, distribution, and marketing of food and food products influence consumer behavior and health. Students will apply knowledge about food products, nutrients, and the chemical and physical properties of food to solve human nutrition and health problems. Upon completion of this course, students are prepared to enroll in either Food Science or Nutrition Science courses within this program of study in preparation for careers in those areas.

Other Info: This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

FAMILY/CONSUMER SCIENCE

0903

### FNS - FOOD SCIENCE

Short Name

**FOOD SCI**

Course Code

**018081**

This is a project-based course focusing on preparing students for further education and careers in the Food Science industry. Students will investigate the production, processing, distribution, and marketing of food to consumers. Students will apply the science associated with food and food products to the selection, preservation, processing, packaging, and distribution of safe and nutritious food. Students will explain the impacts of food on human health and nutrition.

Other Info: This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

FAMILY/CONSUMER SCIENCE

0903

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## AGRICULTURE, FOOD AND NATURAL RESOURCES

### FNS - NUTRITION SCIENCE

Short Name

Course Code

**NUTRI SCI**

**018082**

This is a project-based course focusing on preparing students for further education and careers in the Nutrition Science industry. Students will understand the relationship between the body, nutrients, and health. Students will apply these understandings and the socioeconomic, cultural, and community influences on diet to develop dietary plans for a variety of lifestyles and human health concerns.

Other Info: This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

FAMILY/CONSUMER SCIENCE

0903

### AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER

Short Name

Course Code

**AGRI OTHER**

**019930**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

HORT EDUC

0905

### AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER

Short Name

Course Code

**AGRI OTHER**

**019931**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

HORT EDUC

0905

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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER**
Short Name
Course Code
**AGRI OTHER**
**019932**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
HORT EDUC	0905

**AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER**
Short Name
Course Code
**AGRI OTHER**
**019933**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
HORT EDUC	0905

**AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER**
Short Name
Course Code
**AGRI OTHER**
**019934**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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### ACCOUNTING

Short Name

Course Code

**ACCT**

**030300**

This two-semester course covers sole proprietorship accounting principles involved in the preparation and maintenance of financial records concerned with business management and operations. It is a comprehensive introduction to basic accounting including recording, summarizing and reporting, principles of income measurement and asset valuation, accounting systems and controls. Students are exposed to careers in the accounting field and are given the opportunity to perform accounting applications using the computer. An introduction to partnerships and corporations may be included.

Recommended Level: Grades 10-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

### ACCOUNTING, ADVANCED

Short Name

Course Code

**ACCT AD**

**030301**

This is a two-semester course that includes partnership and corporate accounting, adjustment in inventory control systems, budgetary control systems and further enhancement of accounting skills. Accounting is a prerequisite.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

### COLLEGE PRINCIPLES OF ACCOUNTING

Short Name

Course Code

**PRIN ACCT**

**030302**

This two-semester course is designed to provide introductory knowledge of accounting principles, concepts, and practices. Included topics are the balance sheet, the income statement, the statement of owner's equity, the statement of cash flows, worksheets, journals, ledgers, accruals, adjusting and closing entries, internal controls, inventories, fixed and intangible assets, liabilities, equity and financial statement analysis. This course provides a foundation for more advanced work in the fields of accounting and business. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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### COLLEGE PRINCIPLES OF ACCOUNTING II

Short Name

**PRINACCTII**

Course Code

**030303**

This course is a continuation of ACCT 1200 and is part of a Finance Academy. Principles of Accounting II includes accounting for businesses organized as corporations, cash flow statements, accounting for manufacturing businesses, preparing and using accounting data for management decision making, and analyzing and interpreting financial statements. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

### BUSINESS COMMUNICATION

Short Name

**BUSNS COMM**

Course Code

**030600**

Students will reinforce communication skills needed in business, management and administrative occupations by composing and reading written and digital communications, developing and delivering formal and informal presentations, applying active listening skills to obtain and clarify information, and exhibiting interpersonal skills to deal positively with diverse individuals. Students will use tables, charts, and figures to support written and oral communication, and locate, organize, and reference written information from various sources to communicate effectively. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 9-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

### FINANCIAL PLANNING

Short Name

**FIN PLAN**

Course Code

**030801**

This course is part of the National Academy Foundation's Academy of Finance. Financial Planning provides students with an overview of the job of a financial planner. Students look at financial planning in an objective way that requires them to regard all aspects of financial planning as relevant to a potential client.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**BUSINESS, MARKETING AND MANAGEMENT****INSURANCE**Short NameCourse Code**INSUR****030802**

This course is part of the National Academy Foundation's Academy of Finance. This course introduces students to the insurance industry and to its critical role in the financial services sector and to society. It covers common types of insurance, including life, health and disability, property, liability, and forms of commercial insurance, and career opportunities.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**FINANCIAL SERVICES**Short NameCourse Code**FIN SERV****030803**

This course is part of the National Academy Foundation's Academy of Finance. Financial Services provides students with an overview of financial services companies. This course introduces student to banking, monetary policy, investing, and financial careers. Students examine current issues including ethics in the financial services industry.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**COLLEGE FUNDAMENTALS OF FINANCIAL PLANNING**Short NameCourse Code**COL FIN PL****030804**

This course is a college course that is part of a Finance Academy. This course is the first of two courses examining the fundamentals of financial planning. Students will examine the principles of financial planning, steps in the financial planning process, tools and techniques used in the planning process, and explore careers associated with financial planning. This course may be available for dual credit at the postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**BUSINESS, MARKETING AND MANAGEMENT****BUSINESS LAW**Short NameCourse Code**BUSNS LAW****030900**

A course designed to present the study of the legal rights and responsibilities necessary to be informed and productive citizens. Key concepts include contracts and torts, the role of courts, litigation and constitutional issues including civil and criminal law.

Recommended Level: Grades 10-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**COLLEGE BUSINESS LAW**Short NameCourse Code**COL BUSLAW****030901**

This course is a college course that is part of a Finance Academy. This course offers an introduction to ordinary legal aspects of business transactions involving such topics as legal rights and duties, law of contracts, law of sales, and law of property. It gives a general understanding and development of basic legal logic in business situations through the use of principles, cases, and information useful in determining the need for professional counsel. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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### **BUSINESS ECONOMICS**

Short Name

Course Code

**BUSNS ECON**

**031800**

Business Economics is a course designed to help students make decisions and understand economic principles as applied to current events and issues. Emphasis includes allocation of resources, economic systems, economic institutions and incentives, markets and prices, market structures, productivity, role of government, global economic concepts, and economic indicators.

Recommended Level: Grades 11-12

Career Cluster: Finance

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
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ECONOMICS	1503
SOCIAL SCIENCE	1501

### **BUSINESS STRATEGIES**

Short Name

Course Code

**BUSNSTRAT**

**031805**

This course is part of the MBA Research Consortium's High School of Business National Model. Business strategies develop student understanding of skills in such areas as business law, entrepreneurship, financial analysis, human resources management, and strategic management. By planning, organizing, staffing, directing, leading, and controlling business activities, students acquire a realistic understanding of what is required to open and successfully run a business. They conduct situational, market, and competitive analyses; select a target market; develop a business plan; recruit, interview, select, and hire staff; supervise staff; control use of resources; and evaluate the results of the business effort. Throughout the course, students make decisions and use problem-solving skills. Formal reflection is an on-going component of the course.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
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**COURSE CODES AND CLEARING ENDORSEMENTS****Page  
20****Revised  
March  
2018****BUSINESS, MARKETING AND MANAGEMENT****INTRODUCTION TO BUSINESS, MARKETING & MGMT**Short Name**INTROBUSNS**Course Code**032300**

This course is designed as an introductory overview of the Business, Marketing and Management Career Field. Units of study include economic systems, forms of business ownership, management, marketing, and accounting. Career opportunities will also be explored.

Recommended Level: Grades 9-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**EXPLORATION OF BUSINESS AND ENTREPRENEURSHIP**Short Name**EXPBUS ENT**Course Code**032350**

A middle-level course designed to give students an overview of Business, Marketing and Management Career Field and Clusters with an emphasis on entrepreneurship. Students will begin the study of personal money management, basic business concepts, entrepreneurship concepts, the role of business in our society and be introduced to entrepreneurship as a career option.

Recommended Level: Middle/Junior High

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**ENTREPRENEURSHIP**Short Name**ENTREP**Course Code**032370**

Entrepreneurship is a course designed for students with a career interest in entrepreneurship. Emphasis is placed on the evaluation of the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the national and global economy will be explored. Instructional strategies include the development of a business plan, operation of a school-based business, or actual creation of a student-run business.

Recommended Level: Grades 9-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

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<b>BUSINESS, MARKETING AND MANAGEMENT</b>		

### COLLEGE INTRODUCTION TO BUSINESS

Short Name

Course Code

**COLINT BSN**

**032400**

This college-level course surveys the structure and functions of the American business system in a global society, together with an overview of business organization, economics, management, marketing, and finance. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

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### COLLEGE INTRODUCTION TO ENTREPRENEURSHIP

Short Name

Course Code

**COL ENTREP**

**032600**

College Introduction to Entrepreneurship is a course designed for students with a career interest in entrepreneurship. Emphasis is placed on the evaluation of the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the national and global economy will be explored. Instructional strategies include the development of a business plan, operation of a school-based business, or actual creation of a student-run business. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BASIC BUSINESS

0301

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### COLLEGE ENTREPRENEURSHIP FEASIBILITY STUDY

Short Name

Course Code

**COL ENTFEA**

**032601**

College Entrepreneurship Feasibility Study is a course in which students will assess the viability of a new venture business idea to determine if the concept is feasible. The student will identify and analyze the present climate for their business idea by completing an industry, target market, and competitive analysis. The student will assess the financial needs for startup as well as their own skills, strengths, and talents to launch a successful business idea. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

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BASIC BUSINESS

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**COURSE CODES AND CLEARING ENDORSEMENTS****Page  
22****Revised  
March  
2018****BUSINESS, MARKETING AND MANAGEMENT****COLLEGE ENTREPRENEURSHIP LEGAL ISSUES**Short Name  
**COLENT LGL**Course Code  
**032602**

College Entrepreneurship Legal Issues explores legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. Students will review contract law, articles of incorporations and the filing process, intellectual property, employment law (including FERPA, ADA, and FMLA), personnel policies and procedures, the hiring process, job descriptions, disciplinary actions, and business insurance. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
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**COLLEGE MARKETING FOR THE ENTREPRENEUR**Short Name  
**COL MKENT**Course Code  
**032603**

College Marketing for the Entrepreneur will provide insights essential for marketing an entrepreneurial venture utilizing innovative and financially responsible marketing strategies. Students will develop an understanding of traditional and non-traditional entrepreneurial marketing strategies and prepare marketing strategies with associated tactics to launch and sustain an entrepreneurial venture. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
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**COLLEGE ENTREPRENEURSHIP FINANCIAL TOPICS**Short Name  
**COL ENTFIN**Course Code  
**032604**

This course will cover financial topics for small business. Financial topics include budgeting, creation of financial statements and learning how to work with an accounting professional. Other topics covered are income tax, sales and use tax, unemployment tax, employee benefits and retirement planning. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
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**BUSINESS, MARKETING AND MANAGEMENT****COLLEGE ENTREPRENEURSHIP BUSINESS PLAN**Short NameCourse Code**COL ENTBPL****032605**

The student will evaluate a business concept and create a business plan. Students will assess the strengths and weaknesses of a business concept, apply research data into the plans, and prepare the financial projections for the business concept. Students will identify and evaluate various resources available for funding small businesses. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

BASIC BUSINESS

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**MANAGEMENT AND LEADERSHIP**Short NameCourse Code**MGT/LEAD****032802**

This course emphasizes the basic concepts of management and leadership within a business or organization. It addresses characteristics, organization, and operation of business as major sectors of the economy. Students will investigate management issues involved in planning, organizing, leading, and controlling an organization. They will also acquire essential skills in the areas of emotional intelligence: time management, stress management, professional growth and development, communication, and relationship skills.

Recommended Level: Grades 10-12

Career Cluster: Business Management and Administration

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

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**COLLEGE PRINCIPLES OF MANAGEMENT**Short NameCourse Code**COL MGT****032803**

This course is a college course that is part of a Finance Academy. This is an introduction to the theory and practice of management of the organization. Special attention is devoted to the processes of planning, decision making, organizing, leading, and controlling the organization. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**BUSINESS, MARKETING AND MANAGEMENT****PERSONAL FINANCE**Short NameCourse Code**PERSON FIN****033000**

The goal of personal finance is to help students become financially responsible, conscientious members of society. This course develops student understanding and skills in money management; budgeting; financial goal attainment; use of credit; insurance; investments; and consumer rights and responsibilities. Application of academic concepts, technology, and career planning are integrated throughout the curriculum.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

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ECONOMICS

1503

**PRINCIPLES OF FINANCE**Short NameCourse Code**PRIN FIN****033001**

This course is part of the MBA Research Consortium's High School of Business National Model. Principles of Finance furthers student understanding of two specific business activities - accounting and finance. Students acquire an understanding of financial statements, calculate financial ratios, and make corporate financial management decisions based on their analysis of that financial data.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

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**BUSINESS, MARKETING AND MANAGEMENT****COLLEGE WEALTH BUILDING & FINANCIAL MANAGEMENT**Short Name  
**COL WEALTH**Course Code  
**033002**

This course is designed to provide knowledge of personal financial management. Students learn to manage their resources to make sound personal financial decisions, interpret data to develop short and long term budgetary plans, and develop product knowledge related to financial planning. Students will develop a financial plan that includes savings, investing, credit management, risk management, and retirement. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
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ECONOMICS	1503

**COLLEGE INTERNATIONAL FINANCE**Short Name  
**COL INTFIN**Course Code  
**033003**

This course is a college course that is part of a Finance Academy. This course offers an introduction to an analysis of international finance providing a conceptual framework within which the unique financial decisions of the multinational firm can be analyzed. The student gains an understanding of decision elements of the international organization such as divergences in currencies, exchange rate issues (variations and controls), rates of inflation, tax systems, money and capital markets, and political systems. This course may be available for dual credit a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

**COLLEGE INTRODUCTION TO INVESTMENT**Short Name  
**COL INVEST**Course Code  
**033004**

This course is a college course that is part of a Finance Academy. This course presents an introductory review of investment concepts and theory including analysis of individual investments, stocks, bonds, mutual funds, security markets, and portfolio management. This course may be available for dual credit a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

**BUSINESS, MARKETING AND MANAGEMENT****INTRODUCTION TO BUSINESS TECHNOLOGY**Short NameCourse Code**INTRO TECH****033422**

Middle-level course designed to emphasize digital life, use business productivity applications, and explore Information Technology careers. Students will master keyboarding skills; compose, create, edit, and format word processing documents; organize and manipulate data in a spreadsheet; and prepare a digital presentation. An introduction to basic principles in digital media and computer science will be included.

Recommended Level: Middle/Junior High

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701
MIDDLE GR/BUSINESS ED	1812

**KEYBOARDING APPLICATIONS**Short NameCourse Code**KEYBD APP****033501**

Keyboarding is identified as a foundation knowledge and skill area for all students regardless of their career interest. This middle-level course is designed for students to learn touch typing techniques and proper keystroking while continuing to develop composition and proofreading skills as well as speed and accuracy. Students will demonstrate keyboarding proficiency in document formatting (letters, reports, and tables). Students will demonstrate acceptable ethical and social behavior while developing keyboarding skills.

Recommended Level: Middle/Junior High

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701
MIDDLE GR/BUSINESS ED	1812

**BUSINESS, MARKETING AND MANAGEMENT****BUSINESS IN A GLOBAL ECONOMY**Short NameCourse Code**GLOBL ECON****034100**

This course is part of the National Academy Foundation's Academy of Finance, Business in a Global Economy provides students with an understanding of how and why businesses choose to expand their operations into other countries. This course exposes students to the unique challenges facing firms doing business internationally and to the potential opportunities and markets that are lost to firms that choose not to do business in the global marketplace.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**MARKETING**Short NameCourse Code**MARKET****038100**

Students will explore the basic functions of marketing: pricing, promotion, product planning, and place/distribution: the marketing mix. The curriculum provides the foundational skills and knowledge in economics, communications skills/interpersonal skills, professional career development, business, management, and entrepreneurship. Application of academic concepts and technology are integrated throughout the curriculum.

Recommended Level: Grades 10-12

Career Cluster: Marketing

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**MARKETING MANAGEMENT**Short NameCourse Code**MARK MGT****038101**

This course develops student understanding and skills promotion, channel management, marketing information management, market planning, pricing, and product/service management. The curriculum utilizes communication, team building, and problem-solving skills while applying academic and critical-thinking strategies. Application of academic concepts and technology are integrated throughout the curriculum enhancing career and professional development.

Recommended Level: Grades 10-12

Career Cluster: Marketing

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

**BUSINESS, MARKETING AND MANAGEMENT****ADVANCED MARKETING**Short NameCourse Code**ADV MKTG****038200**

The course will emphasize entrepreneurial development and responsive marketing strategies that meet customer needs. The course focuses on marketing concepts and the role of marketing in the organization and society. Topics include market segmentation, product development, promotion, distribution, and pricing. Additional topics include external environment, economics, politics, government, market research, international marketing, cultural diversity, ethics, technology, and careers in marketing. Capstone activities include development of a marketing or business plan.

Recommended Level: Grades 11-12

Career Cluster: Marketing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

**COLLEGE PRINCIPLES OF MARKETING**Short NameCourse Code**COL MKTG****038201**

The course is an introduction to the language and issues of marketing with an emphasis on learning to develop responsive marketing strategies that meet customer needs. The course focuses on marketing concepts and the role of marketing in the organization and society. Topics include market segmentation, product development, promotion, distribution, and pricing. Additional topics include external environment, economics, politics, government, marketing research, international marketing, cultural diversity, ethics, technology, and careers in marketing. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Marketing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

**ADVANCED PLACEMENT MACROECONOMICS**Short NameCourse Code**AP MACECON****038500**

This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. The purpose of an AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price-level determination and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

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ECONOMICS

1503

**BUSINESS, MARKETING AND MANAGEMENT****ADVANCED PLACEMENT MICROECONOMICS**Short Name**AP MICECON**Course Code**038501**

This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. The purpose of an AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. This course places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

ECONOMICS

1503

**COLLEGE MACROECONOMICS**Short Name**CMACROEC**Course Code**038502**

This is a course designed to help students explore theories of employment, Gross Domestic Product, inflation and economic growth. Topics include income theories, savings and investments, business fluctuations, inflation, growth theories and monetary and fiscal policies. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**COLLEGE MICROECONOMICS**

Short Name

Course Code

**CMICROEC**

**038503**

This course presents the theory and application of the four market structures: pure competition, monopolistic competition, oligopoly and monopoly. Students determine the revenue, costs, output and prices for each market structure along with the social implications of each. In addition, the course analyzes various social issues using the microeconomic principles of elasticity, benefit and cost, and diminishing returns analysis. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

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**BUSINESS, MARKETING AND MANAGEMENT, OTHER**

Short Name

Course Code

**BUSNS OTH**

**039930**

Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

**BUSINESS, MARKETING AND MANAGEMENT, OTHER**

Short Name

Course Code

**BUSNS OTH**

**039931**

Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304



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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**BUSINESS, MARKETING AND MANAGEMENT, OTHER**

Short Name

Course Code

**BUSNS OTH**

**039932**

Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

**BUSINESS, MARKETING AND MANAGEMENT, OTHER**

Short Name

Course Code

**BUSNS OTH**

**039933**

Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

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**BUSINESS, MARKETING AND MANAGEMENT, OTHER**

Short Name

Course Code

**BUSNS OTH**

**039934**

Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

## CAREER EDUCATION FOUNDATIONAL AND SPECIALTY

## MIDDLE SCHOOL CAREER DEVELOPMENT

Short NameCourse Code

MS CAREER

320100

Students learn how to effectively explore careers while using the Nebraska Career Education Model and related resources. Students will learn the vocabulary and expectations of effective academic and career planning. A focus will be to discover the relationship between personal-social qualities, interests and skills to a wide variety of careers and postsecondary options to choose from. Emphasis will be given to learn and opportunities to practice the Nebraska Career Readiness Standards of Practice, which are current expectations in today's workplace. Students will draw upon these conclusions to develop a Personal Learning Plan to transition into high school with a broad career cluster focus.

Recommended Level: Middle/Junior High

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501
SKILLED & TECHNICAL SCIENCES	1000

## HIGH SCHOOL CAREER DEVELOPMENT

Short NameCourse Code

HS CAREER

320101

Students learn and apply the career and college planning process using the Nebraska Career Education Model and related resources. Students will identify personal interests, skills and values, then apply this knowledge to both academic and career decision making. Students will demonstrate progress/proficiency in Nebraska Career Readiness Standards of Practice which are current expectations in today's workplace. Student will activate the planning process by setting goals, developing and implement a Personal Learning Plan, for effective transition from high school to most appropriate post secondary education based on knowledge of self, career goal and financial considerations.

Recommended Level: High School

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501
SKILLED & TECHNICAL SCIENCES	1000

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 33</b>	<b>Revised March 2018</b>
<b>CAREER EDUCATION FOUNDATIONAL AND SPECIALTY</b>		

### ENGAGE! CAREER EXPLORATION AND READINESS

Short Name

Course Code

**ENGAGE**

**320300**

This is a project based course designed to help middle school students explore career options using the Nebraska Career Education Model and understand the Nebraska Career Readiness Standards. The course is organized by three themes - Making it My Choice, A World of Options and Charting a Direction - with culminating individual and group projects. Students will define career clusters and pathways, describe examples of career readiness, utilize self-assessments to better understand interests, establish a career portfolio and create a personal learning plan to provide direction to high school and post-high school activities. This course is aligned to American School Counselor Association Standards for Students and integrates EducationQuest tools and resources for middle school students.

Recommended Level: Grades 7-8

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501
SKILLED & TECHNICAL SCIENCES	1000

### FUNDAMENTALS OF ENTREPRENEURSHIP

Short Name

Course Code

**FUN ENTREP**

**320600**

Fundamentals of Entrepreneurship is a course designed for students to explore the characteristics of an entrepreneur within any of the six career fields. Students will analyze opportunities in entrepreneurship. Emphasis is on understanding the forms of business ownership and reviewing the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the local, regional and national economy will be explored. Students will identify and understand the rationale of a start-up business plan.

Recommended Level: Grades 9-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903

**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY****OTHER WORK-BASED LEARNING CLASS**Short NameCourse Code**WKBL CL****320700**

A class that provides students the opportunity to connect what they learn in school with worksite application. Students are placed in an occupation that best relates to their career interest and aptitude. The school and business community work together to plan activities that will enable each student to apply the knowledge, attitudes and skills learned in the classroom to actual business situations and positions.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**OTHER WORK-BASED LEARNING EXPERIENCE**Short NameCourse Code**WKBL EXP****320701**

This course allows the district to award credit for the work based learning work experience. This is a companion course to 320700, the classroom portion of the COOP/DO, work based learning program.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**AFNR WORK-BASED LEARNING EXPERIENCE**Short NameCourse Code**AFNR WBL****320702**

This course allows the district to award credit for an Agriculture, Food and Natural Resources work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY****ARCH & CONST WORK-BASED LEARNING EXPERIENCE**Short Name**AC WBL**Course Code**320703**

This course allows the district to award credit for an Architecture and Construction work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

CCareer Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**ARTS, AV & COM WORK-BASED LEARNING EXPERIENCE**Short Name**AAVC WBL**Course Code**320704**

This course allows the district to award credit for an Arts, A/V Technology & Communication work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**BUSINESS MGMT WORK-BASED LEARNING EXPERIENCE**Short Name**BMA WBL**Course Code**320705**

This course allows the district to award credit for a Business, Management and Administration work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**COURSE CODES AND CLEARING ENDORSEMENTS**Page  
36Revised  
March  
2018**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY****ED & TRAIN WORK-BASED LEARNING EXPERIENCE**Short Name**EDT WBL**Course Code**320706**

This course allows the district to award credit for an Education and Training work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**ENERGY & ENG WORK-BASED LEARNING EXPERIENCE**Short Name**EE WBL**Course Code**320707**

This course allows the district to award credit for an Energy and Engineering work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**FINANCE WORK-BASED LEARNING EXPERIENCE**Short Name**FIN WBL**Course Code**320708**

This course allows the district to award credit for a Finance work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

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<b>CAREER EDUCATION FOUNDATIONAL AND SPECIALTY</b>		

### GOVT, PUBLIC ADMIN WORK-BASED LEARNING EXPERIENCE

Short Name

Course Code

**GPA WBL**

**320709**

This course allows the district to award credit for a Government and Public Administration work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

WORK-BASED LEARNING

1605

### HEALTH SCIENCE WORK-BASED LEARNING EXPERIENCE

Short Name

Course Code

**HS WBL**

**320710**

This course allows the district to award credit for a Health Science work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

WORK-BASED LEARNING

1605

### HOSPITALITY & TOURISM WORK-BASED LEARNING EXPERIENCE

Short Name

Course Code

**HT WBL**

**320711**

This course allows the district to award credit for a Hospitality & Tourism work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

WORK-BASED LEARNING

1605

**COURSE CODES AND CLEARING ENDORSEMENTS**Page  
38Revised  
March  
2018**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY****HUMAN SERVICES/FACS WORK-BASED LEARNING EXPERIENCE**Short Name  
HSFACS WBLCourse Code  
320712

This course allows the district to award credit for a Human Services/FACS work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**INFORMATION TECHNOLOGY WORK-BASED LEARNING  
EXPERIENCE**Short Name  
IT WBLCourse Code  
320713

This course allows the district to award credit for an Information Technology work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**LAW, PUBLIC SAFETY WORK-BASED LEARNING EXPERIENCE**Short Name  
LPSS WBLCourse Code  
320714

This course allows the district to award credit for a Law, Public Safety & Security work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605



**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY****MANUFACTURING WORK-BASED LEARNING EXPERIENCE**Short Name**MFCT WBL**Course Code**320715**

This course allows the district to award credit for a Manufacturing work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**MARKETING WORK-BASED LEARNING EXPERIENCE**Short Name**MKT WBL**Course Code**320716**

This course allows the district to award credit for a Marketing work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**TRANSPORTATION WORK-BASED LEARNING EXPERIENCE**Short Name**TDL WBL**Course Code**320717**

This course allows the district to award credit for a Transportation, Distribution and Logistics work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

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<b>CAREER EDUCATION FOUNDATIONAL AND SPECIALTY</b>
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**ENGLISH/LANGUAGE ARTS WORK-BASED LEARNING EXPERIENCE**

Short Name

Course Code

**ELA WBL**

**320718**

This course allows the district to award credit for an English Language Arts work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

WORK-BASED LEARNING

1605

**MATHEMATICS WORK-BASED LEARNING EXPERIENCE**

Short Name

Course Code

**MATH WBL**

**320719**

This course allows the district to award credit for a Mathematics work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

WORK-BASED LEARNING

1605

**SCIENCE WORK-BASED LEARNING EXPERIENCE**

Short Name

Course Code

**SCI WBL**

**320720**

This course allows the district to award credit for a Science work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

WORK-BASED LEARNING

1605

**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY****SOCIAL STUDIES WORK-BASED LEARNING EXPERIENCE**Short Name**SS WBL**Course Code**320721**

This course allows the district to award credit for a Social Studies work-based learning experience.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**REGISTERED APPRENTICESHIP CLASS**Short Name**REG APP CL**Course Code**320722**

This course provides the required instruction as approved by the USDOL for students to be in a registered apprenticeship program.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**REGISTERED APPRENTICESHIP WORK**Short Name**REG APP WK**Course Code**320723**

This course code is used to award credit for work-based learning experience as a part of a USDOL Registered Apprentice Program.

This course must be a part of a Work-based Learning Program.

Recommended Level: Grades 11-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

WORK-BASED LEARNING

1605

**COURSE CODES AND CLEARING ENDORSEMENTS****Page  
42****Revised  
March  
2018****CAREER EDUCATION FOUNDATIONAL AND SPECIALTY****CAREER ED FOUNDATIONAL & SPECIALTY, OTHER**Short Name  
**CEFS,OTHER**Course Code  
**329930**

Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 6-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501
SKILLED & TECHNICAL SCIENCES	1000

**CAREER ED FOUNDATIONAL & SPECIALTY, OTHER**Short Name  
**CEFS,OTHER**Course Code  
**329931**

Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 6-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501
SKILLED & TECHNICAL SCIENCES	1000

**COURSE CODES AND CLEARING ENDORSEMENTS****Page  
43****Revised  
March  
2018****CAREER EDUCATION FOUNDATIONAL AND SPECIALTY****CAREER ED FOUNDATIONAL & SPECIALTY, OTHER**Short Name  
**CEFS,OTHER**Course Code  
**329932**

Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 6-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501
SKILLED & TECHNICAL SCIENCES	1000

**CAREER ED FOUNDATIONAL & SPECIALTY, OTHER**Short Name  
**CEFS,OTHER**Course Code  
**329933**

Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 6-12

Career Cluster: Career Development and Exploratory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501
SKILLED & TECHNICAL SCIENCES	1000

## CAREER EDUCATION FOUNDATIONAL AND SPECIALTY

## CAREER ED FOUNDATIONAL &amp; SPECIALTY, OTHER

Short NameCourse Code

CEFS,OTHER

329934

Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 6-12

Career Cluster: Career Development and Exploratory Courses

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501
SKILLED & TECHNICAL SCIENCES	1000

## COMMUNICATION &amp; INFORMATION SYSTEMS

## PROGRAMMING I

Short NameCourse Code

PROG I

270401

Programming I covers fundamental concepts of programming. These are provided through explanations and effects of commands and hands-on utilization of computers to produce correct output. This course introduces effective techniques necessary for the efficient solution of a variety of complex problems using a high-level programming language. It includes problem descriptions, flow charts, hierarchy diagrams, pseudocode, and program documentation as a means of solving these problems. This course emphasizes the creation of efficient algorithms through fundamental programming techniques such as input/output handling, programming structures, and data storage. Students are introduced to project management techniques, including standard debugging techniques and collaborative programming strategies.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

## PROGRAMMING II

Short NameCourse Code

PROG II

270402

Students will demonstrate advanced skills in the software development life cycle through in-depth use of a modern programming language. The content covered will include high-level, object-oriented concepts, while emphasizing the design of elegant solutions and efficient algorithms. Topics covered include the use of simple data types as well as complex data structures, best practices in application design, and the collaborative and social aspects of computing.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

## PROGRAMMING III

Short NameCourse Code

PROG III

270403

Students will demonstrate advanced skills in the program development process through expanded use of programming language. Languages may include, but are not limited to C++, Visual Basic, Java, SQL, RPG, COBOL and Assembler. Students demonstrating advanced level programming knowledge and skills may be exposed to collaborative environments that simulate project environments.

Recommended Level: Grades 11-12

Career Cluster: Information Technology

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

**COMMUNICATION & INFORMATION SYSTEMS****INTRODUCTION TO COMPUTER SCIENCE & WEB DESIGN**Short Name**CS WEB**Course Code**270410**

This course introduces students to the foundations of computer science with a focus on how computing powers the world. Students will explore computer science terminology and concepts and apply them to a culminating project using programming language to solve a problem. This course also introduces students to basic web design using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students will be introduced to planning and designing effective web pages; creating web pages by writing HTML and CSS code, and producing a functional, multi-page website.

Recommended Level: Middle/Junior High

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**INTRODUCTION TO COMPUTER SCIENCE**Short Name**INTRO CS**Course Code**270411**

This course introduces students to the foundations of computer science with a focus on how computing powers the world. Students will explore computer science terminology and concepts and apply them to a culminating project using programming language to solve a problem.

Recommended Level: Middle/Junior High

Career Cluster: Information technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**INTRODUCTION TO WEB DESIGN**Short Name**INTRO WEB**Course Code**270412**

This course introduces students to basic web design using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students will be introduced to planning and designing effective web pages; creating web pages by writing HTML and CSS code, and producing a functional, multi-page website.

Recommended Level: Middle/Junior High

Career Cluster: Communication Arts and Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701



**COMMUNICATION & INFORMATION SYSTEMS****INFORMATION TECHNOLOGY APPLICATIONS I**Short Name**ITECH I**Course Code**270501**

Students will explore emerging technologies as it applies to their success for high school, college, and career. The focus will be on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet and database applications used personally and professionally.

Recommended Level: Grades 9-10

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**INFORMATION TECHNOLOGY APPLICATIONS II**Short Name**ITECH II**Course Code**270502**

This course will focus on skill development in advanced spreadsheet, database, integration of applications utilizing advanced features, and exploring web technologies. Students taking both Information Technology Applications I and II may be eligible for dual credit at a participating postsecondary institution. Skills, standards, and coursework align with industry certifications.

Recommended Level: Grades 9-10

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

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<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>
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### INFORMATION TECHNOLOGY FUNDAMENTALS

Short Name

Course Code

**ITECH FUND**

**270504**

Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

### CISCO I: INTRODUCTION TO NETWORKS

Short Name

Course Code

**INTRONET**

**270505**

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media and operations are introduced to provide a foundation for the curriculum. By the end of this course, students will be able to build simple LANs, perform basic configurations for routers and switches and implement IP addressing schemes.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

INFORMATION TECHNOLOGY

2701

### CISCO II: ROUTING AND SWITCHING ESSENTIALS

Short Name

Course Code

**R&S ESSEN**

**270506**

This course describes the architecture, components and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. CCNA II is part of the CISCO Certified Network Associate program that prepares students for the CCENT industry certification.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

INFORMATION TECHNOLOGY

2701

**COMMUNICATION & INFORMATION SYSTEMS****CISCO III: SCALING NETWORKS**Short Name**SCAL NET**Course Code**270507**

This course describes the architecture, components and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. CISCO III is part of the Cisco Certified Network Associate program that prepares students for industry certification.

Recommended Level: Grades 11-12

Career Cluster: Informational Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

INFORMATION TECHNOLOGY

2701

**NETWORKING**Short Name**NET SYS**Course Code**270601**

This course is a study of the fundamentals of current networking technology. Students will learn to design, plan, implement, and support computer networks. The course introduces a full range of computer networking from local area networks to wide area networks.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

INFORMATION TECHNOLOGY

2701

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<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>		

### DIGITAL MEDIA

Short Name

Course Code

**DIG MEDIA**

**270602**

Students will create, design and produce digital media including sound, video, graphics, text, and animation. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management and web processes.

Recommended Level: Grades 9-12

Career Cluster: Information Technology and Communication Arts

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
ART	0200
BUSINESS, MARKETING, INFO TECH	0304
ENGLISH LANGUAGE ARTS	0502
INFORMATION TECHNOLOGY	2701
JOURNALISM AND MASS COMM	0510
JOURNALISM AND MEDIA EDUCATION	0520

### FOUNDATIONS OF WEB DESIGN

Short Name

Course Code

**WEB DESIGN**

**270604**

Students will demonstrate knowledge of web design and languages, including HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management.

Recommended Level: Grades 10-12

Career Cluster: Information Technology and Communication Arts

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

**COMMUNICATION & INFORMATION SYSTEMS****PC SUPPORT AND MAINTENANCE**Short Name**PC SUPP**Course Code**270606**

Students enter the world of computer technology and gain practical experience in assembling a computer system, installing an operating system, troubleshooting computers and peripherals, and using system tools and diagnostic software. They develop skills in resource sharing. In addition, students explore the relationships between internal and external computer components. Emphasis is placed on customer service skills and career exploration.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**INFORMATION TECHNOLOGY SUPPORT**Short Name**ITECSUP**Course Code**270607**

Students will explore the issues related to providing information technology support to organizations. They will practice effective customer support strategies and learn troubleshooting techniques for hardware, software, and operating systems. Students will recommend technology products, design training documentation, and identify security threats.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**COMMUNICATION & INFORMATION SYSTEMS****INTRODUCTION TO MEDIA**Short NameCourse Code**INT MEDIA****270608**

Students enrolled in this course will explore media skills for a variety of purposes (e.g., print, broadcast, video, audio, Internet, mobile). Students will learn about the power of the media and its historical development, current trends, and future innovations. Legal and ethical standards will be introduced as students begin the writing and editing process through hands-on opportunities with equipment and software.

Recommended Level: Grades 10-12

Career Cluster: Communication Arts

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ENGLISH LANGUAGE ARTS	0502
INFORMATION TECHNOLOGY	2701
JOURNALISM AND MASS COMM	0510
JOURNALISM AND MEDIA EDUCATION	0520
SPEECH	0506
SPEECH	0522

**VIDEO PRODUCTION**Short NameCourse Code**VIDEO PROD****270609**

Students will expand their media skills of interviewing, reporting, writing, editing, photography/videography, and design. Students will explore careers while working together to create projects in a variety of media, such as print, web, podcast, and/or broadcast. The emphasis of Video Production is on collaboration and career exploration.

Recommended Level: Grades 10-12

Career Cluster: Communication Arts

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ENGLISH LANGUAGE ARTS	0502
INFORMATION TECHNOLOGY	2701
JOURNALISM AND MASS COMM	0510
JOURNALISM AND MEDIA EDUCATION	0520
SPEECH	0506
SPEECH	0522

**COMMUNICATION & INFORMATION SYSTEMS****MEDIA PRODUCTION**Short Name**MED PROD**Course Code**270610**

Students will apply their media skills of interviewing, reporting, writing, editing, photography/videography, and design. Students will produce in a variety of media, such as print, broadcast, video, audio, Internet, and/or mobile. The emphasis of Media Production II is to work both independently and collaboratively to create a professional product while meeting deadlines.

Recommended Level: Grades 10-12

Career Cluster: Communication Arts

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ENGLISH LANGUAGE ARTS	0502
INFORMATION TECHNOLOGY	2701
JOURNALISM AND MASS COMM	0510
JOURNALISM AND MEDIA EDUCATION	0520
SPEECH	0506
SPEECH	0522

**DIGITAL DESIGN**Short Name**INT DIGTL**Course Code**270611**

This course will introduce students to the technical tools and processes used in digital design. Students will be introduced to the design process model which includes typography, color, and imagery. In addition, design software will be utilized to create graphics, animation, web pages, and video. Students will demonstrate proper use of fair use guidelines. Career opportunities in digital design will be explored.

Recommended Level: Grades 9-12

Career Cluster: Communication Arts

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
ART	0200
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

## COMMUNICATION &amp; INFORMATION SYSTEMS

## ADVANCED DIGITAL DESIGN

Short NameCourse Code

ADV DIGTL

270613

Students will focus on developing advanced skills to plan, design, and create interactive projects using the elements of text, graphics, animation, sound, video, and digital imaging in interactive projects. These skills can prepare students for entry-level positions and other occupational or educational goals.

Recommended Level: Grades 11-12

Career Cluster: Communication Arts

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
ART	0200
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

## ADVANCED PLACEMENT COMPUTER SCIENCE A

Short NameCourse Code

AP COMSC A

270700

The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and is meant to be the equivalent of a first-semester college-level course in computer science. It also includes the study of data structures, design and abstraction. Students are expected to be familiar with and be able to use standard Java library classes from the AP Java subject. Students should be able to read and understand a description of the design and development process leading to such a program. This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. Topics are defined by the College Board located on their website: [www.collegeboard.org](http://www.collegeboard.org)

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

## COMPUTER SCIENCE A

Short NameCourse Code

COMSC A

270701

Computer Science A focuses on further developing computational thinking skills through app development for mobile platforms. The course utilizes industry-standard tools. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases.

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100



## COMMUNICATION &amp; INFORMATION SYSTEMS

## ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES

Short NameCourse Code

AP CSP

270702

The course introduces the essential ideas of computer science with a focus on how computing can impact the world. Along with the fundamentals of computing, one will learn to analyze data, information, or knowledge represented for computational use; create technology that has a practical impact; and gain a broader understanding of how computer science impacts people and society.

This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. Topics are defined by the College Board located on their website: [www.collegeboard.org](http://www.collegeboard.org)

Recommended Level: Grades 9-12

Career Cluster: Information Technology

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
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MATHEMATICS	1100

## COMPUTER SCIENCE PRINCIPLES

Short NameCourse Code

CSP

270703

Computer Science Principles introduces students to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computer, you will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society.

Recommended Level: Grades 9-12

Career Cluster: Information Technology

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

## COMMUNICATION &amp; INFORMATION SYSTEMS

## FOUNDATIONS OF COMPUTING

Short NameCourse Code

FNDCOMP

270704

Designed to be the first computer science course for students who have never programmed before. Foundations of Computing is a starting point for Computer Science. Students will explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis.

Recommended Level: Grades 9-10

Career Cluster: Information Technology

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

## SOFTWARE DEVELOPMENT

Short NameCourse Code

SOFDEV

270705

Students will demonstrate advanced skills in the software development life cycle through in-depth use of a modern programming language. The content covered will include high-level, object-oriented concepts, while emphasizing the design of elegant solutions and efficient algorithms. Students will apply what they have learned through real world application.

Career Cluster: Information Technology

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

## WEB DESIGN AND DEVELOPMENT

Short NameCourse Code

WEBDEV

270706

Students will demonstrate advanced knowledge of web design and development, including HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to the development and coding of a website. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
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<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>		

### **CYBERSECURITY**

Short Name

Course Code

**CYBER**

**270707**

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Students will solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior.

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

INFORMATION TECHNOLOGY

2701

MATHEMATICS

1100

### **PROJECT LEAD THE WAY - COMPUTER SCIENCE PRINCIPLES**

Short Name

Course Code

**PLTW-CSP**

**270708**

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

Recommended Level: Grades 9-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

MATHEMATICS

1100

### **PROJECT LEAD THE WAY - COMPUTER SCIENCE A**

Short Name

Course Code

**PLTW-CSA**

**270709**

Computer Science A focuses on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP CS A course.

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

INFORMATION TECHNOLOGY

2701

MATHEMATICS

1100

## COMMUNICATION &amp; INFORMATION SYSTEMS

## PROJECT LEAD THE WAY – COMPUTER SCIENCE ESSENTIALS

Short Name

PLTW-CSE

Course Code

270710

In Computer Science Essentials, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. Computer Science Essentials helps students create a strong foundation to advance to Computer Science Principles, Computer Science A, and beyond.

Recommended Level: Grades 9-10

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

## PROJECT LEAD THE WAY – CYBERSECURITY

Short Name

PLTW-CYBER

Course Code

270711

Students explore the tools and concepts of cybersecurity and create solutions that allow people to share computing resources while protecting privacy.

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

## IB COMPUTER SCIENCE

Short Name

IB CS

Course Code

270712

IB Computer Science reinforces and develops students understanding of computational thinking and knowledge of how computers and digital devices operate. Drawing on a wide spectrum of knowledge students innovate, explore, and acquire further knowledge. Content includes system fundamentals, networks, computational thinking, problem-solving and programming, data structures, resource management and control. Content updated annually with case studies. Students develop a product and associated documentation.

International Baccalaureate Organization governs this course from the Diploma Programme. In order to teach IB programmes, the school is an authorized IB World School. <http://www.ibo.org/en/programmes/>

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

**COURSE CODES AND CLEARING ENDORSEMENTS****Page  
59****Revised  
March  
2018****COMMUNICATION & INFORMATION SYSTEMS****COMMUNICATION AND INFORMATION SYSTEMS, OTHER**Short Name**COMP OTHER**Course Code**279930**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.

PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**COMMUNICATION AND INFORMATION SYSTEMS, OTHER**Short Name**COMP OTHER**Course Code**279931**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.

PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**COMMUNICATION AND INFORMATION SYSTEMS, OTHER**Short Name**COMP OTHER**Course Code**279932**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.

PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

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<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>		

**COMMUNICATION AND INFORMATION SYSTEMS, OTHER**

Short Name

Course Code

**COMP OTHER**

**279933**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.  
PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**COMMUNICATION AND INFORMATION SYSTEMS, OTHER**

Short Name

Course Code

**COMP OTHER**

**279934**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.  
PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

## EDUCATION AND TRAINING

## INTRODUCTION TO EDUCATION AND TRAINING

Short Name

INTR EDTR

Course Code

350001

This course is designed to introduce students to career opportunities and related skills in the Education and Training career field, including teaching and professional educational training. Students will explore topics related to the foundation and history of education, the philosophy of education, roles of educators, instructional and assessment methods, diversity of cultures and communities related to educational settings, learner development, and professional development. Classroom, laboratory, and educational leadership activities are supplemented through Nebraska Educators Rising, a career and technical student organization.

Recommended Level: Grades 9-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

Other Endorsement

8888

## BEST PRACTICES IN EDUCATION AND TRAINING

Short Name

BESTP ET

Course Code

350002

This course is a continuation of the Introduction to Education and Training course and is the second course in a three course sequence. Students will further engage in topics related to instructional and assessment methods, including differentiation of instruction. Students will also develop active listening skills necessary for educators, and demonstrate positive feedback techniques. Students will gain skills related to planning for instruction, which will be utilized in the field experience (the third course in this sequence). Classroom, laboratory, and educational leadership activities are supplemented through Nebraska Educators Rising, a career and technical student organization.

Recommended Level: Grades 10-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

OTHER ENDORSEMENT

8888

## FIELD EXPERIENCE IN EDUCATION AND TRAINING

Short Name

ET FIELD

Course Code

350010

This course is a continuation of the Best Practices in Education and Training course and is the third course in a three course sequence. Through this capstone experience, students will apply previously developed knowledge and skills into a structured workplace experience. This volunteer experience may take place within a school environment for those seeking teaching careers, or within the business and industry community for those seeking careers in professional educational training. Goals are set cooperatively by students, their instructor, and respective supervising professionals. Opportunities may include experience teaching in a controlled setting by designing learning experiences and facilitating presentations. Students will focus on improving their instructional strategies through coaching from their teacher and supervising professionals. Classroom, laboratory, and educational leadership activities are supplemented through Nebraska Educators Rising, a career and technical student organization..

Recommended Level: Grades 10-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

OTHER ENDORSEMENT

8888

**COURSE CODES AND CLEARING ENDORSEMENTS****Page  
63****Revised  
March  
2018****EDUCATION AND TRAINING****EDUCATION AND TRAINING, OTHER**Short NameCourse Code**EDTR, OTH****359930**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

OTHER ENDORSEMENT

8888

**EDUCATION AND TRAINING, OTHER**Short NameCourse Code**EDTR, OTH****359931**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

OTHER ENDORSEMENT

8888

**EDUCATION AND TRAINING, OTHER**Short NameCourse Code**EDTR, OTH****359932**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

OTHER ENDORSEMENT

8888



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<b>EDUCATION AND TRAINING</b>
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**EDUCATION AND TRAINING, OTHER**

Short Name

Course Code

**EDTR, OTH**

**359933**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

**EDUCATION AND TRAINING, OTHER**

Short Name

Course Code

**EDTR, OTH**

**359934**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

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<b>HEALTH SCIENCES</b>
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### EXPLORATION OF HEALTH SCIENCES

Short Name

Course Code

**EXPLORE HS**

**077200**

Introduction to Health Science careers within the five pathways. This course may provide experiences along with information and knowledge related to the health care field.

Recommended Level: Middle/Junior High

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700

### PLTW MEDICAL DETECTIVES

Short Name

Course Code

**PLTW MD**

**077201**

This course is taught at the middle school level. Medical Detectives (MD) explores the biomedical sciences through hands-on projects and labs that require students to solve a variety of medical mysteries. Students investigate medical careers, vital signs, diagnosis and treatment of diseases, as well as human body systems such as the nervous system. Genetic testing for hereditary diseases and DNA crime scene analysis put the students in the place of real life medical detectives.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grade 8

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES****HEALTH SCIENCES I**Short Name**HLTHSC I**Course Code**077300**

This course is designed to introduce students to career opportunities and related skills in the Health Science career field. Students will explore topics related to; health informatics, biotechnology research, therapeutic certificated services, behavioral health, life span performance and allied/public health. This course also focuses on cost and educational requirements of health science professions, ethical and legal responsibilities, the history and economics of health care.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES II**Short Name**HLTHSC II**Course Code**077301**

This course is a continuation of the Health Sciences I course and is the second course in a three course sequence. Instruction includes anatomy and physiology, medical terminology, medical ethics and law, diseases and disorders, positive and negative health and wellness behaviors, and basic first aid. Students will gain skills related to continuing in the health sciences career field, which will be utilized in the Project Based Learning experience (the third course in this sequence).

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization..

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

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<b>HEALTH SCIENCES</b>		

### HEALTH SCIENCES III

Short Name

**HLTHSCIII**

Course Code

**077302**

This course is a continuation of Health Science I and Health Science II and is the third course in a three course program of study. It has been designed to give the student a project based learning (PBL) experience in relation to health sciences. Students will follow a project based learning model of the classroom teacher's choice, such as the Buck Institute for Education Project Based Learning Model. Students will be required to give a final presentation of their experience in the media of their choice to community members. This course will include work-based experiences and advanced career planning as a result of this experience. This course can also be designed as an individualized study plan.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Technical Student Organization (CTSO).

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

### PERSONAL AND COMMUNITY MEDICAL ISSUES/PUBLIC HEALTH

Short Name

**MEDISSPH**

Course Code

**077303**

Students will gain an increased understanding of how their personal health is influenced by a wide range of biological, environmental, political, and societal factors, and will explore the numerous ways in which public health professionals are trained to promote and protect population health and well-being locally, regionally, at the national, as well as the global level. This course will engage students in critical conversations around how they can influence their own, as well their community's health outcomes through education and advocacy efforts. A variety of both acute and chronic diseases will be explored from a public health perspective.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

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<b>HEALTH SCIENCES</b>		

### EXPLORING LABORATORY MEDICINE

Short Name

Course Code

**LABMED**

**077304**

This class will explore the global range of career opportunities available in the clinical lab career field. Examination of legal and ethical issues will be covered throughout the class. Participants will have hands on practice with laboratory techniques, equipment, and record keeping relevant to medical, veterinary, dental, biotechnology, agricultural and food science and multiple other professions.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

### NURSING ASSISTANT/CNA

Short Name

Course Code

**NA/CNA**

**077400**

This is a basic nursing knowledge and skills course for the nurse assistant in a health care setting. It meets the requirements of Public Law 100-203 OBRA and is approved by the Nebraska Department of Health. This course is required to be taught by a R.N. or B.S.N. in order for students to receive high school credit, arrangements need to be made to insure teaching certification. This course may be available for dual credit at a postsecondary institution.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

## HEALTH SCIENCES

## MEDICATION AIDE

Short NameCourse Code

MEDAIDE

077401

A course of instruction in which an individual receives training in administering medications, this course has minimum requirement of 40 hours and students must be 18 yrs of age in order to sit for the written exam administered by the state board of Health and Human Services. This course must be taught by an R.N. licensed in QMA. This course may be available for dual credit at a postsecondary institution.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

## EMERGENCY MEDICAL TECHNICIAN/CERT

Short NameCourse Code

EMT/CERT

077402

This course is designed and based on the Department of Transportation's National Highway Safety Administrations Emergency Medical Technician National Education Standards for teaching basic emergency medical care and transportation of critical and emergent patients who access the emergency medical system. This course focuses on the basic knowledge and skills necessary to provide care and transportation in an emergency situation providing the link between the emergency scene to the emergency health care system. Students learn to perform interventions with the basic equipment typically found on an ambulance.

This must be taught by a State licensed Emergency Medical Services - Instructor. Students must complete course and successfully complete the National Registry of Emergency Medical Technician's certification examination in order to apply for a State EMT license. Students must have reached the age of 18 in order to sit for the exam. A cooperating Nebraska endorsed teacher must collaborate with this course if the EMS instructor does not have a postsecondary dual-credit or a career education teaching permit. This course may be available for dual credit at a postsecondary institution.

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Recommended Level: Grade 11  
Career Cluster: Health Sciences

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
SCIENCE	1301

## HEALTH SCIENCES

## PHARMACY TECHNICIAN

Short NameCourse Code

PHARM TECH

077444

This course is an introduction to pharmacy technology professions. Employment opportunities and basic pre-pharmacy technician skills which may be utilized in either clinical and community settings such as retail, home health care and ambulatory care pharmacies. This course is recommended for students planning on pursuing careers which may require basic pharmaceutical knowledge, common health care mathematical applications and/or technical proficiency in the administration medications. After the completion of this course, students may be eligible to take the Pharmacy Technician Certification Exam (PTCE) through the Pharmacy Technician Certification Board (PTCB). This course may be available for dual credit at a postsecondary institution.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Prerequisites for the course are Introduction to Health Sciences (077300) and Medical Terminology (077600).

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
HEALTH SCIENCES	0700
SCIENCE	1301

## PHLEBOTOMY TECHNICIAN

Short NameCourse Code

PHL TECH

077446

This is a semester course designed to help the student become prepared for the phlebotomy technician certification exam upon completion of all required components. This course may be available for dual credit at a postsecondary institution.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
HEALTH SCIENCES	0700
SCIENCE	1301

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<b>HEALTH SCIENCES</b>		

### INTRODUCTION TO SPORTS MEDICINE

Short Name

Course Code

**SPORTS MED**

**077500**

This course is designed for students who may be interested in a career in Sports Medicine. This course should feature the prevention, recognition, treatment, and rehabilitation of activities caused by physical activity or athletics. Topics may include taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, medical terminology. Students may learn to measure cardio respiratory endurance, flexibility, body composition, and blood pressure. CPR/AED certification is a prerequisite for this course or a required outcome of the course. This course may be available for dual credit at a postsecondary institution.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

### MEDICAL TERMINOLOGY

Short Name

Course Code

**MED TERM**

**077600**

This course is designed to help students learn medical language by analyzing their components. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions. This course may be available for dual credit at a postsecondary institution.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301



## HEALTH SCIENCES

## EXERCISE SCIENCE

Short NameCourse Code

EXER SCI

077601

This course is appropriate for students wishing to pursue a career in personal training or for those who desire an introduction in the field of exercise science. The course will enable students to perform fitness assessments, according to current national guidelines and to use data to develop exercise and training routines, fitness plans and nutritional programs to fit the needs of clients. Successful completion of this course along with any other requirements may lead to a potential eligibility to take the Personal Trainer Exam through a certifying body. Leadership development activities of the career and technical student organization HOSA|Future Health Professionals is strongly encouraged. This course may be available for dual credit at a postsecondary institution. Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Prerequisites for this course are Introduction to Health Sciences (077300) and Anatomy/Physiology (130210).

Recommended Level: Grades 11 -12 Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

## PERFORMANCE NUTRITION

Short NameCourse Code

SPORT NUTR

077701

This course is designed to give students an introduction to professional or support careers in the field of Performance and Sport Nutrition. This course includes instruction on the principles and science of basic nutrition; its relationship to individual health throughout the entire life cycle; how nutrients have an effect on personal health; how nutrients can both positively and negatively impact the human body before, during and after performance.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

## HEALTH SCIENCES

## HUMAN LIFE CYCLE NUTRITION

Short NameCourse Code

HULICY NUT

077702

This course is designed to give students an understanding of human nutrition and how it plays a role in every human life cycle. Students will apply nutritional concepts to specific lifestyles requirements across the lifespan. Students will evaluate nutrition and wellness practices and suggest improvement plans based on current USDA recommendations and socioeconomic impacts on eating. In this course, students will assess career options and employment skills required to be in the food and nutrition industry.

Classroom and laboratory activities are supplemented through experiences and leadership programs and activities through Nebraska HOSA/Future Health Professionals and Nebraska FCCLA Career Student Organizations (CTSO's).

Recommended Level: Grades 10-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
SCIENCE	1301

## HEALTH INFORMATION TECHNOLOGY

Short NameCourse Code

HIT

077800

Health Information Technology (HIT) is the management and use of information in Health Sciences related to, but not limited to, communications, legal & ethical implications, data management & organization, and technology applications. Completion of this course allows the student to obtain entry-level competencies defined by the American Health Information Management Association. These are nationally accepted standards of practitioner roles and function. This course may be available for dual credit at a postsecondary institution.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
HEALTH SCIENCES	0700
INFORMATION TECHNOLOGY	2701

## HEALTH SCIENCES

## BEHAVIORAL HEALTH I

Short NameCourse Code

BEHAV HE I

077801

This is the first of two one a semester courses that establishes a foundation that is necessary to understand and investigate the field of Behavioral Health. Course emphasis is placed on teaching students to successfully investigate the Behavioral Health workforce structure and acquire awareness and knowledge of career area.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
PSYCHOLOGY	1508
SOCIAL SCIENCE	1501
SOCIOLOGY	1509

## BEHAVIORAL HEALTH II

Short NameCourse Code

BEHAV HEII

077802

Student must have completed Behavioral Health I in order to take this course. Course establishes a foundation that is necessary to understand and investigate the field of Behavioral Health. Course emphasis is placed on teaching students to successfully investigate the Behavioral Health workforce structure and acquire awareness and knowledge of career area.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
PSYCHOLOGY	1508
SOCIAL SCIENCE	1501
SOCIOLOGY	1509

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<b>HEALTH SCIENCES</b>		

### PLTW PRINCIPLES OF BIOMEDICAL SCIENCE I

Short Name

Course Code

**PLTW BMD I**

**077803**

This is the first of two courses. Students must complete this course in order to take Biomedical Science II. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Recommended Level: Grades 9-10

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

SCIENCE

1301

### PLTW PRINCIPLES OF BIOMEDICAL SCIENCE II

Short Name

Course Code

**PLTW BMDII**

**077804**

This is the second of two courses. Students must complete Biomedical Science I in order to take this class. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Recommended Level: Grades 9-10

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

SCIENCE

1301

## HEALTH SCIENCES

## PLTW HUMAN BODY SYSTEMS I

Short NameCourse Code

PLTW HBS I

077805

This is the first of two courses. Students must complete in order to take Human Body Systems II. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Recommended Level: Grades 10-11

Career Cluster: Health Sciences

Endorsement NameEndorsement Number

BIOLOGY

1303

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

SCIENCE

1301

## PLTW HUMAN BODY SYSTEMS II

Short NameCourse Code

PLTW HBSII

077806

This is the second of two courses. Student must complete Human Body Systems I in order to take this course. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Recommended Level: Grades 10-11

Career Cluster: Health Sciences

Endorsement NameEndorsement Number

BIOLOGY

1303

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

SCIENCE

1301

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<b>HEALTH SCIENCES</b>		

### PLTW MEDICAL INTERVENTIONS I

Short Name

Course Code

**PLTW MI I**

**077807**

This is the first of two courses. Students must take this course in order to take Medical Interventions II. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Recommended Level: Grades 10-11

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

SCIENCE

1301

### PLTW MEDICAL INTERVENTIONS II

Short Name

Course Code

**PLTW MI II**

**077808**

This is the second of two courses. Students must have taken Medical Interventions I in order to take this course. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Recommended Level: Grades 10-11

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

SCIENCE

1301

## HEALTH SCIENCES

## PLTW BIOMEDICAL INNOVATION I

Short NameCourse Code

PLTW BMI I

077809

This is the first of two courses. Student must take this course in order to take Biomedical Innovation II. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

In this capstone course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gain from previous courses to design innovation solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Recommended Level: Grade 12  
Career Cluster: Health Sciences

Endorsement NameEndorsement Number

BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH SCIENCES	0700
SCIENCE	1301

## PLTW BIOMEDICAL INNOVATION II

Short NameCourse Code

PLTWBMI II

077810

This is the second of two courses. Student must have taken Biomedical Innovation I in order to take this class. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

In this capstone course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gain from previous courses to design innovation solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Recommended Level: Grade 12  
Career Cluster: Health Sciences

Endorsement NameEndorsement Number

BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH SCIENCES	0700
SCIENCE	1301

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<b>HEALTH SCIENCES</b>
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### HEALTH INFORMATION MANAGEMENT AND ETHICS

Short Name

**HE ITMA ET**

Course Code

**077812**

This course establishes a foundation that is necessary to understand and investigate the field of Health Information Management and Ethics. Legal relationships of physicians and patients, management of communications, contractual agreements, professional liability, malpractice, medical practice acts, and biotechnical issues will be covered with emphasis placed on legal terms, professional attitudes, and the principles of basic concepts of ethics involved in providing medical services.

This course may be available for dual credit at a postsecondary institution.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization..

Recommended Level: Grades 10-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

SOCIAL SCIENCE

1501

### ALLIED HEALTH AND MEDICINE

Short Name

**ALL HEALTH**

Course Code

**077900**

This class will give student practical application at a clinical site or simulated experience. These experiences can occur in a variety of locations included classroom/lab and availability of community resources as determined by the instructor. The experiences should be designed to enhance and supplement the students' knowledge and skill in allied health. The class also includes research for a professional career of interest documented by a professional portfolio.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Endorsement Name

Endorsement Number

BIOLOGY

1303

HEALTH & PHYS EDUC

2304

HEALTH EDUCATION

0801

HEALTH SCIENCES

0700

SCIENCE

1301



## HEALTH SCIENCES

## HEALTH SCIENCES, OTHER

Short NameCourse Code

HS OTHER

077930

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

## HEALTH SCIENCES, OTHER

Short NameCourse Code

HS OTHER

077931

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 117</b>	<b>Revised March 2018</b>
<b>HEALTH SCIENCES</b>		

#### HEALTH SCIENCES, OTHER

Short Name

Course Code

**HS OTHER**

**077932**

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

#### HEALTH SCIENCES, OTHER

Short Name

Course Code

**HS OTHER**

**077932**

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES****HEALTH SCIENCES, OTHER**Short NameCourse Code**HS OTHER****077934**

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

**Endorsement Name****Endorsement Number**

BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 119</b>	<b>Revised March 2018</b>
<b>HOSPITALITY AND TOURISM</b>		

## HOSPITALITY AND TOURISM

Short Name

Course Code

**HOSP TOUR**

**370010**

Hospitality and Tourism provides the student with an understanding of one of the largest industries in the world. Specific applications include the evolution of the industry, food and beverage, lodging, international and domestic travel, business operations, and hospitality and tourism career exploration.

Recommended Level: Grades 9-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

FAMILY/CONSUMER SCIENCE

0903

## CULINARY SKILLS 1

Short Name

Course Code

**CULINARY1**

**370021**

This course is designed to provide students with curriculum which is focused on the foodservice industry and provides training in workplace and culinary skills, food safety and sanitation, interpersonal and communication skills, as well as an exposure to the areas of restaurant management and career exploration.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 10-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

## CULINARY SKILLS 2

Short Name

Course Code

**CULINARY2**

**370022**

This course is designed to provide students with an advanced curriculum which is focused on the foodservice industry and provides training in workplace and culinary skills, interpersonal and communication skills, as well as an exposure to the areas of restaurant management and career exploration. ServSafe Certification may be available at this level through the National Restaurant Association Educational Foundation.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 10-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

**COURSE CODES AND CLEARING ENDORSEMENTS****Page  
120****Revised  
March  
2018****HOSPITALITY AND TOURISM****PROSTART 1**Short NameCourse Code**PROSTART1****370030**

This foundational course is an industry-driven curriculum delivered by the National Restaurant Association that prepares students for careers in the restaurant and foodservice management industry. This course will focus on the following topics: career paths, safety and sanitation, industry standards, food methods and techniques, food service management, and customer services.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 10-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

FAMLY/CONSMR SCIENCE

0903

**PROSTART 2**Short NameCourse Code**PROSTART2****370031**

This course is designed to provide students with an industry-driven curriculum delivered by the National Restaurant Association providing real-life opportunities and the application of practical skills encompassing culinary techniques and management skills.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 10-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

FAMLY/CONSMR SCIENCE

0903

**HOSPITALITY AND TOURISM, OTHER**Short NameCourse Code**HOSPTOTH****379930**

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska DECA, FBLA, FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

FAMLY/CONSMR SCIENCE

0903

**HOSPITALITY AND TOURISM****HOSPITALITY AND TOURISM, OTHER**Short NameCourse Code**HOSPTOTH****379931**

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska DECA, FBLA, FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

FAMILY/CONSMR SCIENCE

0903

**HOSPITALITY AND TOURISM, OTHER**Short NameCourse Code**HOSPTOTH****379932**

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska DECA, FBLA, FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

FAMILY/CONSMR SCIENCE

0903

**HOSPITALITY AND TOURISM, OTHER**Short NameCourse Code**HOSPTOTH****379933**

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska DECA, FBLA, FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

FAMILY/CONSMR SCIENCE

0903

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<b>HOSPITALITY AND TOURISM</b>
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**HOSPITALITY AND TOURISM, OTHER**

Short Name

Course Code

**HOSPTOTH**

**379934**

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska DECA, FBLA, FCCLA and SkillsUSA Career Student Organizations.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

**Clearing Endorsement - - Endorsement Level must be in accord with student grade level:**

**Endorsement Name**

**Endorsement Number**

BUSINESS, MARKETING, INFO TECH

0304

FAMLY/CONSMR SCIENCE

0903

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 123</b>	<b>Revised March 2018</b>
<b>HUMAN SERVICES/FACS</b>		

### **FAMILY AND CONSUMER SCIENCES 6**

Short Name

Course Code

**FACS 6**

**090005**

This is a course designed with the introductory concepts of Family and Consumer Sciences in mind. Students will develop their knowledge of family living, decision making, nutrition, and consumer practices.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Middle/Junior High

Career Cluster: Human Sciences and Education/Family and Consumer Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
MIDDLE GR/FAMILY & CONSUMER	1813

### **FAMILY AND CONSUMER SCIENCES 7**

Short Name

Course Code

**FACS 7**

**090006**

This intermediate course is designed to extend learning of Family and Consumer Sciences concepts. Student will develop their knowledge of family living, decision making, nutrition and wellness, independent living, and consumer practices.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Middle/Junior High

Career Cluster: Human Sciences and Education/Family and Consumer Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
MIDDLE GR/FAMILY & CONSUMER	1813

### **FAMILY AND CONSUMER SCIENCES 8**

Short Name

Course Code

**FACS 8**

**090007**

This Family and Consumer Sciences advanced course will develop students' knowledge and skills in areas of relationships, family living, team work and conflict management, nutrition and wellness, consumer practices, and independent living.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Middle/Junior High

Career Cluster: Human Sciences and Education/Family and Consumer Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
MIDDLE GR/FAMILY & CONSUMER	1813



<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 124</b>	<b>Revised March 2018</b>
<b>HUMAN SERVICES/FACS</b>		

### INTRODUCTION TO HUMAN SCIENCE/FACS

Short Name

Course Code

**INT HUMAN**

**090101**

This course is intended to enable students to have a broad scope of experiences that will provide an overview and fundamental knowledge and essential skills of Human Science with a foundation of, but not limited to family and consumer sciences. Students will explore career possibilities and develop a personal learning plan. Students will practice basic life and career readiness skills and learn to apply them to personal life situations.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level - Grades 9 -10

Career Cluster - Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

### TEXTILE CONSTRUCTION

Short Name

Course Code

**TEXTILES**

**090103**

This course provides instruction in social, psychological and historical aspects of clothing and textiles. Textile and apparel design, selection, construction, maintenance and alteration of textile products will be analyzed and taught. This course integrates knowledge, skills, and practices required for careers in textiles and scientific research.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

### LIFE AND CAREER READINESS

Short Name

Course Code

**L/C READI**

**090104**

This course is designed to help students learn to manage issues in everyday living, prepare for personal life and career responsibilities and develop employability skills. Participation in this course provides a catalyst to greater self-awareness, enhanced relationships, improved cultural competencies and increased control over choosing direction for one's own life and career.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grade 9-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 125</b>	<b>Revised March 2018</b>
<b>HUMAN SERVICES/FACS</b>		

### FUNDAMENTALS OF FOOD AND NUTRITION

Short Name

Course Code

**NUTRI FOOD**

**090107**

This course is designed to provide students with the base foundation knowledge of food selection and preparation needed to successfully fuel the human body through consumption of food and resulting food energy. With a beginning foundation of nutrition, students will learn basic preparation skills and the short-term and long-term wellness consequences as a result of nutritional intake, and exposure to careers related to the food industry.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 9-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

### HOME DESIGN AND INTERIORS

Short Name

Course Code

**HOUSING**

**090109**

This course provides instruction in the physical, physiological and social influences of housing styles and options; exterior and interior design; selection, use and care of home furnishings and equipment; use of available resources for achieving improved living space to meet individual and family needs; and exposure to careers related to housing and interior design.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

### FOOD SCIENCE

Short Name

Course Code

**FOOD SCI**

**090113**

Instruction which provides students with an understanding of the food science industry, food packaging/labeling, sensory evaluation of foods, marketing food products, constituents of foods, nutritive aspects of food constituents, operation of food industry, food microbiology, food processing and food science applications, and, exposure to careers related to food science.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA and FFA Career Student Organizations.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

FAMLY/CONSMR SCIENCE

0903

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<b>HUMAN SERVICES/FACS</b>		

### INTERPERSONAL RELATIONSHIPS

Short Name

Course Code

**RELATION**

**090116**

The course includes the study of interpersonal relationships and the effect of these relationships on the well-being of individuals, families, work and society. The course includes concepts such as effective communication, establishing and maintaining relationships, diverse family systems, characteristics of personal development and the impact of relationships on personal and career success.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

### PARENTS AND FAMILIES

Short Name

Course Code

**PARENTING**

**090117**

Students will evaluate the effects of parenting roles and responsibilities on the well-being of individuals and families. In this course students will explain the following: influences on parenting, decisions to parent, support services for parents, positive actions to support the physical, emotional, intellectual, and social development of family members, parenting theories, and family adjustment to parenthood.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

### CHILD DEVELOPMENT

Short Name

Course Code

**CHILD DEV**

**090119**

This course integrates knowledge, skills and practices necessary for nurturing the growth and development of children. The study of the physical, emotional, social, and intellectual aspects related to prenatal through age 12 will be studied in addition to the positive and negative factors that impact child growth and development.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

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<b>HUMAN SERVICES/FACS</b>		

### EARLY CHILDHOOD EDUCATION AND SERVICES

Short Name

Course Code

**EARLY CHD**

**090121**

In this course students will explore education and community resources available for the education and necessary services of young children. Students will be exposed to educational needs and resources as well as begin the development of lesson plans and lesson plan components for the education of young children as well as the career skills necessary for a career in early childhood education and services.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSMR SCIENCE

0903

### EARLY CHILDHOOD PRACTICUM

Short Name

Course Code

**CHILD PRAC**

**090122**

This course is designed to provide students a hands-on early childhood education experience. Course time is used as an interactive learning environment in which students are actively teaching young children. Students will compile their information toward an employment portfolio.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSMR SCIENCE

0903

### HUMAN GROWTH AND DEVELOPMENT

Short Name

Course Code

**HUMAN GROW**

**090123**

This course explores the physical, emotional, social, and intellectual development of individuals across the lifespan. External impacts on development including family structure and practices, social and technological forces, and resources available to individuals and their outcomes will be explored.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSMR SCIENCE

0903

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 128</b>	<b>Revised March 2018</b>
<b>HUMAN SERVICES/FACS</b>		

### **NUTRITION**

Short Name

Course Code

**NUTRITION**

**090124**

In this course, students develop a deeper understanding of nutrition concepts including reading food labels, analyzing dieting practices including eating disorders, impacts on food consumption and food choices, as well as the role of government nutrition programs.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

### **DIETETICS**

Short Name

Course Code

**DIETETICS**

**090125**

Students apply advanced nutritional concepts to specific lifestyle requirements including athletic nutritional needs and needs across the lifespan. Students will evaluate nutrition and wellness practices and suggest improvement plans based on current USDA recommendations and socioeconomic impacts on eating. In this course, students will assess career options and employment skills required to be in the food and nutrition industry.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

### **INTRODUCTION TO DESIGN PRINCIPLES**

Short Name

Course Code

**INT DESIGN**

**090126**

Students explore the definition and application of elements and principles of design in both living spaces and clothing and textiles. In this course, students will also evaluate the use of elements and principles and suggest improvements. Students are also exposed to career opportunities and the skills necessary for these career fields.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 9-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

**COURSE CODES AND CLEARING ENDORSEMENTS****Page  
129****Revised  
March  
2018****HUMAN SERVICES/FACS****FAMILIES IN CRISIS**Short NameCourse Code**FAM CRISIS****090127**

In this course students identify positive and negative impacts on families including stress, changes in the family life cycle, grief and loss, and mental health disorders. Students will compare and contrast counseling services needed to support families and the types of services available to address conflict and abuse.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

FAMLY/CONSMR SCIENCE

0903

**CAREERS IN MENTAL HEALTH**Short NameCourse Code**CAREER MTL****090128**

Students will explore the career skills and educational requirements of the variety of careers available that relate to counseling and mental health. Students will examine mental health services and resources in depth and may obtain Mental Health First Aid certification.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

FAMLY/CONSMR SCIENCE

0903

**FNS - FOOD PRODUCTION, NUTRITION AND HEALTH**Short NameCourse Code**FOOD PROD****090129**

This is a project-based foundational course to introduce students to the size and scope of food production, nutrition and health, and the underlying principles. Students will define the food science industry, describe historical milestones, and analyze how the production, processing, distribution and marketing of food and food products influence consumer behavior and health. Students will apply knowledge about food products, nutrients and the chemical and physical properties of food to solve human nutrition and health problems. Upon completion of this course, students are prepared to enroll in either Food Science or Nutrition Science courses within this program of study in preparation for careers in those areas.

Recommended Level: Grades 10-12

Career Cluster: Human Services and Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

FAMLY/CONSMR SCIENCE

0903

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<b>HUMAN SERVICES/FACS</b>		

### **FNS - FOOD SCIENCE**

Short Name

Course Code

**FOOD SCI**

**090130**

This is a project-based course focusing on preparing students for further education and careers in the Food Science industry. Students will investigate the production, processing, distribution, and marketing of food to consumers. Students will apply the science associated with food and food products to the selection, preservation, processing, packaging and distribution of safe and nutritious food. Students will explain the impacts of food on human health and nutrition.

This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 10-12

Career Cluster: Human Services and Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

FAMILY/CONSMR SCIENCE

0903

### **FNS - NUTRITION SCIENCE**

Short Name

Course Code

**NUTRI SCI**

**090131**

This is a project-based course focusing on preparing students for further education and careers in the Nutrition Science industry. Students will understand the relationship between the body, nutrients, and health. Students will apply these understandings and the socioeconomic, cultural, and community influences on diet to develop dietary plans for a variety of lifestyles and human health concerns.

This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 10-12

Career Cluster: Human Services and Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

FAMILY/CONSMR SCIENCE

0903

### **FASHION DESIGN**

Short Name

Course Code

**FASHION**

**090206**

Fashion Design explores the evolving field of the clothing we wear and why we wear it. Students will examine fashion design through historical and current frameworks, consider the process of a design from concept to consumer purchase, and identify key components of fashion pieces that distinguish it from others.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSMR SCIENCE

0903

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<b>HUMAN SERVICES/FACS</b>		

### THE BUSINESS OF TEXTILES

Short Name

Course Code

**AD TEXTILE**

**090207**

This course will bring together the parts of knowledge that emphasizes the textiles and bio-fibers, textile production and issues concerning the global textile industry. Students will be required to demonstrate that they can combine concepts to build new ideas for new situations. This course is designed for students interested in careers in the areas but not limited to sales, research or management in the textile industry.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

### LEADERSHIP AND ETHICS IN HUMAN SERVICES

Short Name

Course Code

**LEADER HS**

**090208**

This course is designed to provide a background of leadership styles and information on the necessary leadership skills including collaboration, ethics and teamwork. The course is assessed with a real-life opportunity to demonstrate one's own leadership style through a practical, personal experience.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: 9-12 grade

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

### CONSUMER ECONOMICS

Short Name

Course Code

**CONECON**

**090209**

Study directly focuses on students learning the life readiness skills needed to evaluate and implement best management practices related to human, economic and environmental resources. This course of study includes personal and family financial literacy, consumer mathematics and life/work literacy that contribute to the overall wellness and functionality of today's individual.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 11-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903



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<b>HUMAN SERVICES/FACS</b>		

### HUMAN SERVICES/FACS, OTHER

Short Name

Course Code

**HSR OTH**

**099930**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 7-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

### HUMAN SERVICES/FACS, OTHER

Short Name

Course Code

**HSR OTH**

**099931**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 7-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

### HUMAN SERVICES/FACS, OTHER

Short Name

Course Code

**HSR OTH**

**099932**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 7-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

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<b>HUMAN SERVICES/FACS</b>		

### HUMAN SERVICES/FACS, OTHER

Short Name

Course Code

**HSR OTH**

**099933**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 7-12

Career Cluster: Human Services

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

### HUMAN SERVICES/FACS, OTHER

Short Name

Course Code

**HSR OTH**

**099934**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Classroom, laboratory and educational leadership activities are supplemented through Nebraska FCCLA Career Student Organization.

Recommended Level: Grades 7-12

Career Cluster: Human Services

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

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<b>LAW, PUBLIC SAFETY AND SECURITY</b>		

### **FOUNDATIONS OF LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY**

Short Name

Course Code

**LAW**

**390010**

An exploration of the five pathways of this career cluster: correction services, emergency and fire management services, law enforcement services, legal services and security and protective services, including exposure to careers within all pathways.

Recommended Level: Grades 10-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

### **INTRODUCTION TO CRIMINAL JUSTICE**

Short Name

Course Code

**INCRIM JST**

**390015**

An overview of the history, development and philosophies for crime control and the role of law enforcement within a democratic society. Topics would include an examination of the criminal justice system with an emphasis on the police, the courts (prosecution and defense) and the correctional agencies, and exposure to careers related to criminal justice.

Recommended Level: Grades 10-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

Other Endorsement

8888

### **INTRODUCTION TO FIRE & EMERGENCY SERVICES**

Short Name

Course Code

**FIRE SERV**

**390020**

An introduction to fire prevention and control including the chemistry of combustion, factors that influence fire and safety procedures. May also introduce students to the organization and regulations of fire departments, emergency medical procedures and fire investigation techniques.

Recommended Level: Grades 10-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

**LAW, PUBLIC SAFETY AND SECURITY****COURTS & JUDICIAL PROCESS**Short NameCourse Code**COURTS****390025**

Examines legal aspects of investigative and arrest as well as rule governing the admissibility of evidence in court. It focuses primarily on police and correctional due process, application of the law, and civil liability concerns. Topics include search and seizure, arrest and interrogation, revocation and probation and parole, probable cause and other timely issues.

Recommended Level: Grades 10-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

Other Endorsement

8888

**POLICE AND SOCIETY**Short NameCourse Code**POLICE****390026**

This course examines the role of the police in relationship to law enforcement and American society. Topics include, but are not limited to the role and function of police, the nature of police organizations and police work, and the patterns of police-community relations.

Recommended Level: Grades 9-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

OTHER ENDORSEMENT

8888

**LAW, PUBLIC SAFETY AND SECURITY, OTHER**Short NameCourse Code**LPSS OTHER****399930**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

Other Endorsement

8888

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<b>LAW, PUBLIC SAFETY AND SECURITY</b>
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**LAW, PUBLIC SAFETY AND SECURITY, OTHER**

Short Name

Course Code

**LPSS OTHER**

**399931**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

**LAW, PUBLIC SAFETY AND SECURITY, OTHER**

Short Name

Course Code

**LPSS OTHER**

**399932**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

Other Endorsement

8888

**LAW, PUBLIC SAFETY AND SECURITY, OTHER**

Short Name

Course Code

**LPSS OTHER**

**399933**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

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<b>LAW, PUBLIC SAFETY AND SECURITY</b>
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**LAW, PUBLIC SAFETY AND SECURITY, OTHER**

Short Name

Course Code

**LPSS OTHER**

**399934**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

Other Endorsement

8888

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<b>SKILLED AND TECHNICAL SCIENCES</b>
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### INTRODUCTION TO SKILLED AND TECHNICAL SCIENCES

Short Name

Course Code

**INTROSTS**

**100100**

This course provides the skills and technical knowledge for a beginning student in areas of industry, safety, material, equipment and process understanding. The student will develop awareness of the basics in the skilled and technical sciences areas.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction, Energy and Engineering, Manufacturing, and Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

### CONSTRUCTION TRADES 1

Short Name

Course Code

**CONSTR 1**

**100110**

This course provides an overview of the construction materials, tools and processes.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

### CONSTRUCTION TRADES 2

Short Name

Course Code

**CONSTR 2**

**100120**

This course is designed for the student pursuing a career as a construction professional and combines technical skills with planning and management to prepare the student for all stages of a project.

Recommended Level: Grades 11-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

## SKILLED AND TECHNICAL SCIENCES

## DRAFTING AND DESIGN

Short NameCourse Code

DRFT DSGN

100130

This course builds the skills necessary to understand what is being communicated through drawings and documents, and in turn, convey ideas, duties, and tasks to others in a form representing the industry. Students will use and follow industry specific verbal and visual skills to accomplish workplace/jobsite communications. Students will review traditional project phases and various roles within them to plan for and implement phases within a project. Students will develop preliminary drawings that will be used in design and manufacturing. Computer-aided drafting/design (CADD) may be used.

Recommended Level: Grades 9-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

## ARCHITECTURAL DESIGN 1

Short NameCourse Code

ARCHDSGN 1

100140

This course provides students with an introduction into Computer-Aided-Drafting (CAD) and the foundation for architectural design.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

## ARCHITECTURAL DESIGN 2

Short NameCourse Code

ARCHDSGN 2

100141

This course allows students to create working drawings for residential construction and systems that meet industry standards and codes.

Recommended Level: Grades 11-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700



**SKILLED AND TECHNICAL SCIENCES****PLTW PRINCIPLES OF ENGINEERING**Short NameCourse Code**PLTW P/ENG****100160**

Principles of Engineering (POE) is a Project Lead The Way survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have the opportunity to investigate engineering and high tech career. POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 9-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**PLTW INTRODUCTION TO ENGINEERING DESIGN**Short NameCourse Code**PLTW ENG****100161**

This course encourages students to use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve any problems, even outside of the classroom. Students use sophisticated three-dimension modeling software to communicate the details of these products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 9-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

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<b>SKILLED AND TECHNICAL SCIENCES</b>		

### PLTW CIVIL ENGINEERING AND ARCHITECTURE

Short Name

Course Code

**PLTW CIVIL**

**100162**

Civil Engineering and Architecture is a Project Lead The Way course that includes the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 10-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

### PLTW ENGINEERING DESIGN AND DEVELOPMENT

Short Name

Course Code

**PLTW ENG D**

**100163**

Engineering Design and Development (EDD) is the capstone course in in the Project Lead The Way high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: 10-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
EARTH AND SPACE SCIENCE	1305
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**SKILLED AND TECHNICAL SCIENCES****PLTW AEROSPACE ENGINEERING**Short NameCourse Code**PLTW AERO****100164**

Aerospace Engineering (AE) is a Project Lead The Way course that includes the study of the engineering discipline which develops new technologies for use in aviation, defense systems, and space exploration. The course explores the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. In addition the course presents alternative applications for aerospace engineering concepts.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 10-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**PLTW BIOTECHNICAL ENGINEERING**Short NameCourse Code**PLTW BIO****100165**

Biotechnical Engineering (BE) is a Project Lead The Way course designed to expose students to the diverse fields of biotechnology including biomedical engineering, biomolecular genetics, bioprocess engineering, and agricultural and environmental engineering. Lessons engage students in engineering design problems that can be accomplished in a high school setting related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology tissue engineering, biomedical devices, human interface, bioprocesses, forensics, and bio-ethics. Students in this course will apply biological and engineering concepts to design materials and processes that directly measure, repair, improve, and extending living systems.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 11-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**SKILLED AND TECHNICAL SCIENCES****INTRODUCTION TO ELECTRONICS**Short Name**INT ELECT**Course Code**100401**

Electronics – Comprehensive courses provide a survey of the theory, terminology, equipment, and practical experience in the skills needed for careers in the electronic field as well as typically cover the theory of electricity. Course topics may include AC, DC, analog, and integrated circuitry and solid state and digital devices, amplifiers, and semiconductors. Skills covered involve the repair, maintenance, and building of electronic equipment such as radios, television sets, and industrial equipment.

Recommended Level: Grades 10-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

**ADVANCED ELECTRONICS**Short Name**ADV ELECT**Course Code**100402**

Advanced electronics theory and application. Circuitry diagnostics and the application and design of circuits using the principals of analog and digital electronics will be used.

Recommended Level: Grades 10-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

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<b>SKILLED AND TECHNICAL SCIENCES</b>		

### PLTW DIGITAL ELECTRONICS

Short Name

Course Code

**PLTW DIG**

**100403**

Digital Electronics (DE) is a Project Lead The Way course designed for the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 10-12

Career Cluster: Energy and Engineering (CEENEG)

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

### ELECTRICITY

Short Name

Course Code

**ELECTRIC**

**100405**

Comprehensive courses provide an overview of the theory, terminology, tools, and practical experience in the skills needed for a career in the electrical field. This course typically includes circuitry, safety, and the National Electrical Code. This course covers skills that are involved in building circuits, wiring residential, and commercial and/or industrial buildings. Installing lighting, power circuits, cables and estimating job costs may be included.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

## SKILLED AND TECHNICAL SCIENCES

## FUNDAMENTALS OF ENERGY

Short NameCourse Code

FUNDENERGY

100406

This introductory course will focus on the various types, principles and distribution of energy and energy systems.

Recommended Level: Grades 9-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

## PHYSICS AND MATHEMATICS OF ENERGY

Short NameCourse Code

PHYMATHENG

100407

This course is an in-depth study of energy and its applications.

Recommended Level: Grades 9-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

## SUSTAINABLE ENERGY

Short NameCourse Code

SUSENERGY

100408

This course will focus on energy sources and alternative forms of energy and their uses.

Recommended Level: Grades 9-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

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<b>SKILLED AND TECHNICAL SCIENCES</b>		

### EXPLORING SKILLED AND TECHNICAL SCIENCE - 6TH GRADE

Short Name

Course Code

**EXPLSTS6**

**100706**

In this course students will explore fundamentals in Skilled and Technical Sciences at the 6th grade level.

Course Standards : (Please list)

Student will understand and accurately apply measurement.

Students will know and model safe lab procedures and techniques.

Students will be introduced to technical communications.

Students will experience skills needed to complete a project.

Student will explore career opportunities.

Recommended Level: Middle/Junior High

Career Cluster: Career Development and Exploratory Courses

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Endorsement Name

Endorsement Number

MIDDLE GR/INDUSTRIAL TECH

1816

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

### EXPLORING SKILLED AND TECHNICAL SCIENCE - 7TH GRADE

Short Name

Course Code

**EXPLSTS7**

**100707**

In this course students will explore fundamentals in Skilled and Technical Sciences at the 7th grade level.

Course Standards : (Please list)

Student will understand and accurately apply measurement.

Students will know and model safe lab procedures and techniques.

Students will be introduced to technical communications.

Students will experience skills needed to complete a project.

Student will explore career opportunities.

Recommended Level: Middle/Junior High

Career Cluster: Career Development and Exploratory Courses

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

Endorsement Name

Endorsement Number

MIDDLE GR/INDUSTRIAL TECH

1816

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

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<b>SKILLED AND TECHNICAL SCIENCES</b>
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### EXPLORING SKILLED AND TECHNICAL SCIENCE - 8TH GRADE

Short Name

Course Code

**EXPLSTS8**

**100708**

In this course students will explore fundamentals in Skilled and Technical Sciences at the 8th grade level.

Course Standards : (Please list)

Student will understand and accurately apply measurement.

Students will know and model safe lab procedures and techniques.

Students will be introduced to technical communications.

Students will recognize material types and properties.

Students will demonstrate material processing.

Students will select tools for the correct operation.

Student will explore career opportunities.

Recommended Level: Middle/Junior High Career Cluster: Career Development and Exploratory Courses

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

MIDDLE GR/INDUSTRIAL TECH

1816

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

### MANUFACTURING PROCESS - METALS

Short Name

Course Code

**MANPROCMTL**

**101400**

Students will be introduced to the basic manufacturing process in metal manufacturing.

Recommended Level: Grades 9-12

Career Cluster: Manufacturing

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

### MANUFACTURING PRODUCTION - METALS

Short Name

Course Code

**MANPRODMTL**

**101401**

Students will utilize tools and equipment to produce parts and projects within specifications using metal.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement Name

Endorsement Number

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700



## SKILLED AND TECHNICAL SCIENCES

## ADVANCED MANUFACTURING &amp; FABRICATION - METALS

Short Name  
ADVMANMTLCourse Code  
101402

Students will use advanced tools and equipment (CNC) to produce parts and projects to industry standards and specifications.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700
T&I METALS	1704

## TRANSPORTATION 1

Short Name  
TRANS 1Course Code  
101600

This course will provide students with basic knowledge and skills of the tools and systems needed to be a TDL technician.

Recommended Level: Grades 9-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

## INTRODUCTION TO TDL

Short Name  
INTROTDLCourse Code  
101601

This course will introduce students to the basics in the area of distribution and logistics and how the supply chain of products, materials, etc. operate.

Recommended Level: Grades 9-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**SKILLED AND TECHNICAL SCIENCES****DISTRIBUTION AND LOGISTICS**Short Name**DIST/LOG**Course Code**101610**

Distribution and Logistics is a study of the acquisition, storage, use, packaging, transportation and distribution of materials and products. Topics covered include: product receiving and storage, order processing, packaging, shipping, inventory control, quality control, tracking operations, and material handling safety.

Recommended Level: Grades 9-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

**TRANSPORTATION 2**Short Name**TRANS 2**Course Code**101620**

This course will expand on the basic concepts and systems needed by the TDL technician. It will focus on service and maintenance of automobiles and mobile equipment.

Recommended Level: Grades 10-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

**TRANSPORTATION 3**Short Name**TRANS 3**Course Code**101630**

This course focuses on the diagnosis, service and repair of the automobile and mobile equipment.

Recommended Level: Grades 11-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

**SKILLED AND TECHNICAL SCIENCES****COLLISON REPAIR**Short Name  
**COLLREPAIR**Course Code  
**101640**

This course exposes students to the knowledge and skills needed to be a collision repair and refinishing technician.

Recommended Level: Grades 11-12

Career Cluster: Transportation, Distribution and Logistics

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**BUSINESS LOGISTICS**Short Name  
**BUSLOG**Course Code  
**101650**

Distribution and Logistics is a study of the acquisition, storage, use, packaging, transportation and distribution of materials and products. Topics covered include: management of materials and physical distribution; transportation choices, regulation and rates; traffic management; product storage, warehousing, handling and packaging; inventory management; acquisition and production scheduling; order entry and processing; logistics systems design and operation; and international logistics.

Recommended Level: Grades 11-12

Career Cluster: Transportation, Distribution and Logistics

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**INTRODUCTION TO AIRCRAFT AND ROCKETRY**Short Name  
**INTROAIR**Course Code  
**101700**

This course will serve as an introduction to history, function, design, and principles of flight and rocketry. Students will learn the history of manned flight and space exploration. They will research, design, build, and flight test airframes and rockets. Students will do a hands-on study of the history and future of the aerospace industry.

Recommended Level: Grades 9-10

Career Cluster: Transportation, Distribution and Logistics

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000

## SKILLED AND TECHNICAL SCIENCES

## INTRODUCTION TO AVIATION AND AEROSPACE

Short NameCourse Code

INTROAV

101701

The course engages students in an inquiry-based, problem-solving approach to investigate and understand the science of aeronautics and aerodynamics. The activities are designed to encourage teamwork and participation among the students. The course also provides a broad understanding of the three types of aviation: commercial, military, and general aviation.

Recommended Level: Grades 10-11

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

## HISTORY OF AVIATION

Short NameCourse Code

HISTOFAV

101702

This course explores the historical development of aviation and aerospace on a global and national scale. The class focuses on the key individuals, their achievements and overall contribution to the science of aeronautics and aircraft; including the technologies and key events that have unfolded since the dawn of flight.

Recommended Level: Grades 11-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

HISTORY

1505

SKILLED &amp; TECHNICAL SCIENCES

1000

SOCIAL SCIENCE

1501

## AVIATION SAFETY

Short NameCourse Code

AVSAFE

101703

This course provides the student with a detailed introduction to aspects of aviation safety as well as the associated components of flight in regards to human factors, aircraft technology, weather related accidents, and aeronautical accident investigation. The student will develop an understanding of the issues relating to aviation safety including the regulatory framework, aeronautical decision making, safety data analysis, nature of accidents, safety management, human factors, air traffic technology, aircraft technology, the accident investigation process, and apply these to current issues facing the civil, military, and commercial aviation industry.

Recommended Level: Grades 11-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

**SKILLED AND TECHNICAL SCIENCES****INTRODUCTION TO POWERED FLIGHT**Short Name**INTOPFLT**Course Code**101704**

The successful completion of this course will prepare the student to take and pass the Federal Aviation Administration's (FAA) Private Pilot Written Exam which is a requirement to fulfill in obtaining a Private Pilot Certificate. This course will introduce the student to a variety of subject matters ranging in, but not limited to, Basic Aerodynamics, Aircraft Systems, Flight Instrument applications, Federal Aviation Regulations, Meteorology, Aerial Navigation, Airport Operations and Procedures, In-route Flight Planning, and applications of Determining Aircraft Performance Parameters for safe flight.

Recommended Level: Grade 12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

**INTRODUCTION TO MECHATRONICS**Short Name**INTERMECH**Course Code**101900**

This course prepares students for careers in manufacturing and for postsecondary education. The main focus is a core structure study in hydraulics, pneumatics, electrical, material testing, sensors, electric and pneumatic robot operations and an introduction to programmable logic controllers.

Recommended Level: Grades 9-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL, SKILL SPEC

1700

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<b>SKILLED AND TECHNICAL SCIENCES</b>
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**PLTW COMPUTER INTEGRATED MANUFACTURING**

Short Name

Course Code

**PLTW MFG**

**101901**

Computer Integrated Manufacturing (CIM) is a Project Lead The Way course designed to study manufacturing planning, integration and implementation of automation. The course explores manufacturing history. Individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality and efficiently.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 9-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**MANUFACTURING PROCESSES - WOODS**

Short Name

Course Code

**MANPROCWD**

**101920**

Students will be introduced to the basic manufacturing process in wood manufacturing.

Recommended Level: Grades 9-11

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

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<b>SKILLED AND TECHNICAL SCIENCES</b>		

### MANUFACTURING PRODUCTION - WOODS

Short Name

Course Code

**MANPRODWD**

**101921**

Students will utilize tools and equipment to produce parts and projects within specifications using wood.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

### ADVANCED MANUFACTURING & FABRICATION - WOODS

Short Name

Course Code

**ADVMANWD**

**101922**

Students will use advanced tools and equipment (CNC) to produce parts and projects to industry standards and specifications.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

### WELDING 1

Short Name

Course Code

**WELD 1**

**101930**

Students will be introduced to the basic manufacturing process in welding manufacturing.

Recommended Level: Grades 9-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

SKILLED & TECHNICAL SCIENCES

1000

SKILLED & TECHNICAL,SKILL SPEC

1700

**SKILLED AND TECHNICAL SCIENCES****WELDING 2**Short Name**WELD 2**Course Code**101940**

This course is a continuation of learning the knowledge and skills of the welding industry.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

**WELDING 3**Short Name**WELD 3**Course Code**101941**

Students will produce projects and welds to specifications and work towards welding certifications.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

T&amp;I METALS

1704



## SKILLED AND TECHNICAL SCIENCES

## MANUFACTURING PROCESSES - PLASTICS

Short Name  
MANPROCPL

Course Code  
101950

Students will be introduced to the basic manufacturing process in plastics manufacturing.

Recommended Level: Grades 9-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

## MANUFACTURING PRODUCTION - PLASTICS

Short Name  
MANPRODPL

Course Code  
101951

Students will utilize tools and equipment to produce parts and projects within specifications using plastics.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

## ADVANCED MANUFACTURING &amp; FABRICATION - PLASTICS

Short Name  
ADVMANPLST

Course Code  
101952

Students will use advanced tools and equipment (CNC) to produce parts and projects to industry standards and specifications.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

## SKILLED AND TECHNICAL SCIENCES

## ENGINEERING DESIGN AND SYSTEMS THINKING

Short Name  
**ENGDSNTHK**

Course Code  
**103191**

This course gives students the opportunity to develop skills and understanding of engineering concepts.

Recommended Level: Grades 9-10

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

## ENGINEERING PROBLEM SOLVING

Short Name  
**ENGPROBSLV**

Course Code  
**103192**

This course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study.

Recommended Level: Grades 9-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

## SYSTEMS ENGINEERING AND PROJECT MANAGEMENT

Short Name  
**SYSENGPRJT**

Course Code  
**103193**

This is an engineering research course in which students will design and develop an original solution to a valid open-ended technical problem by applying the engineering design process.

Recommended Level: Grades 11-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**SKILLED AND TECHNICAL SCIENCES****ROBOTICS**Short NameCourse Code**ROBOTICS****103194**

Introduction of Robotics (IR) is designed to explore the current and future use of automation technology in industry and everyday use. Students will receive a comprehensive overview of robotic systems and the subsystems that comprise them while engaging with a robotics platform. This course is designed for students who have an interest in Energy and Engineering (CEENEG) robotics applications.

Recommended Level: Grades 9-12

Career Cluster: Energy and Engineering (CEENEG)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**ADVANCED ROBOTICS**Short NameCourse Code**ADV ROBOT****103195**

Advanced Robotics is designed to be a continuation of the Robotics course and provide a capstone experience in a sequence of courses dealing with the current and future use of automation technology in industry. Students will continue the study and exploration of robotic systems and the subsystems that comprise them while engaging with a robotics platform. This course is designed for students who have an interest in Engineering and Manufacturing.

Recommended Level: Grades 11-12

Career Cluster: Energy and Engineering

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCES	1000
SKILLED & TECHNICAL,SKILL SPEC	1700

**SKILLED AND TECHNICAL SCIENCES****SKILLED AND TECHNICAL SCIENCE, OTHER**Short NameCourse Code**STSOTHER****109930**

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

**SKILLED AND TECHNICAL SCIENCE, OTHER**Short NameCourse Code**STSOTHER****109931**

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

**SKILLED AND TECHNICAL SCIENCE, OTHER**Short NameCourse Code**STSOTHER****109932**

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

## SKILLED AND TECHNICAL SCIENCES

## SKILLED AND TECHNICAL SCIENCE, OTHER

Short Name

STSOTHER

Course Code

109933

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

## SKILLED AND TECHNICAL SCIENCE, OTHER

Short Name

STSOTHER

Course Code

109934

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Endorsement NameEndorsement Number

SKILLED &amp; TECHNICAL SCIENCES

1000

SKILLED &amp; TECHNICAL,SKILL SPEC

1700

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Revised March 2018</b>
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## Course Codes and Clearing Endorsements - Change Summary

### Version 9.0.0

**March 22, 2018**

Numerous changes have been made to course descriptions and clearing endorsements.  
Please check carefully before assigning a course code.

#### **1. Course Codes Removed**

011013 – Agricultural Biology  
011014 – Equine Science  
011016 – Plant Biology  
012003 – Turf Management  
016002 – Structural Systems  
018049 – Environmental Science  
018050 – Advanced Placement Environmental Science  
018083 - FNS – Food and Nutrition Science Research and Development  
050315 – Advanced Placement Spanish Literature  
(Moved to 060255 under World Language)  
065000 – Language Survey  
110626 – IB Mathematics & Computing-SL  
135020 – Advanced Placement Physics

#### **2. New Course Codes**

012005 – Agribusiness Management and Entrepreneurship  
016006 – Precision Agriculture and Engineering  
018064 – CASE Natural Resources and Ecology  
018065 – CASE Food Science and Safety  
018066 – CASE Agricultural Power and Technology  
050053 – IB Language A (English) Middle Years Program  
050060 – English Grammar  
050061 – Yearbook  
050062 – Research Methods  
050063 – Literature of a Genre  
060001 – World Language Arabic I  
060002 – World Language Arabic II  
060111 – Latin IB Classical Language  
060254 – World Language Japanese III  
060255 – Advanced Placement Spanish Literature and Culture  
(Replaced course 050315 that was removed from English Language Arts)

## COURSE CODES AND CLEARING ENDORSEMENTS

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062021 – Middle School Exploratory French  
062041 – Middle School Exploratory Spanish  
062091 – Middle School World Language Exploratory – Other  
080127 – Adapted Physical Education  
090129 – FNS – Food Production, Nutrition and Health  
090130 – FNS – Food Science  
090131 – FNS – Nutrition Science  
101402 – Advanced Manufacturing & Fabrication – Metals  
101700 – Introduction to Aircraft and Rocketry  
101701 – Introduction to Aviation and Aerospace  
101702 – History of Aviation  
101703 – Aviation Safety  
101704 – Introduction to Powered Flight  
101922 – Advanced Manufacturing & Fabrication – Woods  
101941 – Welding 3  
101952 – Advanced Manufacturing & Fabrication – Plastics  
110627 – IB Mathematics Higher Level  
135023 – Advanced Placement Physics C: Electricity and Magnetism  
135024 – Advanced Placement Physics C: Mechanics  
135025 – Meteorology  
151115 – Advanced Placement Comparative Government and Politics  
152004 – Gender Studies  
270410 – Introduction to Computer Science & Web Design  
270411 – Introduction to Computer Science  
270412 – Introduction to Web Design  
270712 – IB Computer Science  
320722 – Registered Apprenticeship Class  
320723 – Registered Apprenticeship Work

### 3. Course Codes with Name Changes

130420 – Physical Science – Integrated  
    Previous name: Integrated Science – Physical Science  
130422 – Biology – Integrated  
    Previous name: Integrated Science – Biology  
130423 – Chemistry – Integrated  
    Previous name: Integrated Science – Chemistry  
060226 – Advanced Placement French Language and Culture  
    Previous name: Advanced Placement French and Culture  
060236 – Advanced Placement German Language and Culture  
    Previous name: Advanced Placement German and Culture

## COURSE CODES AND CLEARING ENDORSEMENTS

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060253 – Advanced Placement Japanese Language and Culture

Previous name: Advanced Placement Japanese and Culture

### 4. Course Codes with Name and Description Changes

011004 – Animal Science

Previous name: Animal Biology

011006 – Small Animal Management

Previous name: Companion Animals

011007 - Plant Science

Previous name: Plant Science/Horticulture

011008 - Crop Management/Agronomy

Previous name: Agronomic Science

011010 – Agricultural Economics

Previous name: Economics & Agribusiness

011011 – Agricultural Sales and Communication

Previous name: Agricultural Sales and Entrepreneurship

012004 – Agricultural Biotechnology

Previous name: Biotechnology

013000 – Environmental and Natural Resources

Previous name: Natural Resources

013002 – Environmental and Natural Resources Management

Previous name: Advanced Natural Resources

014000 – Food Science and Safety

Previous name: Food Science

014001 – Food Products and Technology

Previous name: Advanced Food Science

016000 – Power, Structural and Technical Foundations

Previous name: Power, Structure and Technical Systems Fundamentals

016003 – Power, Structural and Technology Systems

Previous name: Power and Technology

017000 – Agricultural Leadership and Career Readiness

Previous name: Leadership and Ethics in Agriculture

033422 – Introduction to Business Technology

Previous name: Computer Applications

060107 – Advanced Placement Latin

Previous name: Advanced Placement Latin Vergil

060246 – Advanced Placement Spanish Language and Culture

Previous name: Advanced Placement Spanish and Culture

060276 – Advanced Placement Chinese Language and Culture

Previous name: Advanced Placement Chinese and Culture



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077304 – Exploring Laboratory Medicine

Previous name: Exploring the Clinical Lab

100100 – Introduction to Skilled and Technical Sciences

Previous name: Introduction to the Built Environment

100110 – Construction Trades 1

Previous name: Principles of Construction Technology

110120 – Construction Trades 2

Previous name: Advanced Construction Technology

100130 – Drafting and Design

Previous name: Introduction to Architecture and Construction

100140 – Architectural Design 1

Previous name: Computer Aided Drafting

100141 – Architectural Design 2

Previous name: Applications in Design and Pre-construction

100406 – Fundamentals of Energy

Previous name: Energy Exploration

100407 – Physics and Mathematics of Energy

Previous name: Energy Generation and Distribution

100408 – Sustainable Energy

Previous name: Green Energy

101400 – Manufacturing Process – Metals

Previous name: Manufacturing – Metals

101401 – Manufacturing Production – Metals

Previous name: Advanced Fabrication and Manufacturing – Metals

101600 – Transportation I

Previous name: Introduction to Energy, Power and Transportation Systems

101601 – Introduction to TDL

Previous name: Emerging Tech in Transportation & Logistics

101620 – Transportation 2

Previous name: Transportation Tech Svcs & Maint

101630 – Transportation 3

Previous name: Automotive & Mobile Equip Serv & Repair

101640 – Collision Repair

Previous name: Automotive Body Repair and Refinishing

101920 – Manufacturing Processes – Woods

Previous name: Manufacturing – Woods

101921 – Manufacturing Production – Woods

Previous name: Advanced Fabrication and Manufacturing – Woods

101930 – Welding 1

Previous name: Manufacturing – Welding

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101940 – Welding 2

Previous name: Advanced Fabrication and Manufacturing – Welding

101950 – Manufacturing Processes – Plastics

Previous name: Manufacturing – Plastics

101951 – Manufacturing Production – Plastics

Previous name: Advanced Fabrication and Manufacturing- Plastics

103191 – Engineering Design and Systems Thinking

Previous name: Introduction to Engineering

103192 – Engineering Problem Solving

Previous name: Engineering Concepts

103193 – Systems Engineering and Project Management

Previous name: Engineering Applications

110623 – IB Mathematical Studies – Standard Level

Previous name: IB Mathematical Studies

110624 – IB Mathematics Standard Level

Previous name: IB Mathematics

110625 – IB Further Mathematics-Higher Level

Previous name: IB Further Mathematics-SL

150750 – Advanced Placement Human Geography

Previous name: Advanced Placement Geography

151113 – Advanced Placement United State Government and Politics

Previous name: Advanced Placement Government

### 5. Course Description changes

011005 – Large Animal Management

011009 – Agribusiness

011015 – Veterinary Science

012001 – Nursery and Landscape

012002 – Floriculture

013001 – Wildlife Management

016004 – Welding

016005 – Metals and Fabrication

0180661 – CASE Plant Science

018062 – CASE Animal Science

018063 – CASE Animal & Plant Biotechnology

018080 – FNS – Food Production, Nutrition, and Health

018081 – FNS – Food Science

018082 – FNS – Nutrition Science

077302 – Health Sciences III

077702 – Human Life Cycle Nutrition

## COURSE CODES AND CLEARING ENDORSEMENTS

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090116 – Interpersonal Relationships  
270602 – Digital Media  
270702 – Advanced Placement Computer Science Principles  
270703 – Computer Science Principles  
270704 – Foundations of Computing  
270706 – Web Design and Development  
270708 – Project Lead The Way – Computer Science Principles  
270710 – Project Lead The Way – Computer Science Essentials

### **6. Endorsement code Name Changes**

1605 – Work-based Learning  
    Previous name: Coop Ed Div Occ  
1000 – Skilled and Technical Sciences  
    Previous name: Industrial Tech Education  
1700 – Skilled & Technical Sciences, Skilled Specific  
    Previous name: Skilled & Technical Sciences Ed  
1803 – Middle Level  
    Previous name: Middle Grades

### **7. Endorsement codes have been ADDED/REMOVED for the following course codes**

011007 – Remove – 0905 – Hort Educ  
012002 – Remove 0905 – Hort Educ  
077702 – Add 1301 Science and 1303 Biology  
077801 – Add 1508 Psychology and 1509 Sociology  
077802 – Add 1508 Psychology and 1509 Sociology  
077803 – Add – 1301 Science  
077804 – Add – 1301 Science  
077805 – Add – 1301 Science  
077806 – Add – 1301 Science  
077807 – Add – 1301 Science  
077808 – Add – 1301 Science  
077809 – Add – 1301 Science  
077810 – Add – 1301 Science  
103194 - Add – 1100 Mathematics  
103195 - Add – 1100 Mathematics  
270602 – Add – 0502 English Language Arts, 0510 Jour and Mass Comm,  
    0520 Journalism and Media Education, 0200 Art.  
270702 - Add - 0304 Business, Marketing, Info Tech  
270703 - Add - 0304 Business, Marketing, Info Tech  
270704 - Add - 0304 Business, Marketing, Info Tech  
270706 - Add - 0304 Business, Marketing, Info Tech

## COURSE CODES AND CLEARING ENDORSEMENTS

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270708 - Add - 0304 Business, Marketing, Info Tech  
270710 - Add - 0304 Business, Marketing, Info Tech  
310131 – Add – 1305 Earth and Space Science , 1308 Physics, and 1307 Chemistry  
310151 – Add – 1502 Anthropology, 1503 Economics, 1507 Political Science,  
1508 Psychology, and 1509 Sociology

### Course Codes and Clearing Endorsements - Change Summary

**Version 8.0.0**

**April 17, 2017**

Numerous changes have been made to course descriptions and clearing endorsements.  
Please check carefully before assigning a course code.

#### **1. Course Codes Removed**

080150 – Physical Education  
080200 – Physical Education I  
080300 – Physical Education II  
080400 – Physical Education III  
080500 – Physical Education IV  
080600 – Physical Education, Specialized  
080601 – Strength Training  
089933 – Physical Education, Other  
089934 – Physical Education, Other  
090108 – Advanced Human Food, Nutrition & Wellness  
270612 – Intermediate Digital Design  
320400 – C4C - Curriculum For Careers  
350015 – Early Childhood Education I  
350020 – Early Childhood Education II

#### **8. New Course Codes**

011012 – MS Introduction To Ag, Food & Natural Resources  
080107 – Foundations For Physical Education and Fitness  
080108 – Beginning Swimming  
080109 – Intermediate Swimming  
080110 – Fitness Swimming and Aquatic Activities  
080111 – Introduction to Strength & Conditioning  
080112 – Intermediate Strength & Conditioning  
080113 – Advanced Strength & Conditioning

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080114 – Aerobic Training  
080115 – Advanced Aerobic Training  
080116 – Introduction to Dance  
080117 – Hip-Hop Dance  
080118 – Ballroom Dance  
080119 – Dance Performance  
080120 – Lifetime Activities  
080121 – Team Games  
080122 – Outdoor Pursuits  
080123 – Lifeguard Training & Water Safety Instruction Aide  
080124 – Sport Officiating  
080125 – Physical Education Elementary  
080126 – Physical Education Middle School  
090121 – Early Childhood Education and Services  
090122 – Early Childhood Practicum  
090123 – Human Growth and Development  
090124 - Nutrition  
090125 - Dietetics  
090126 – Introduction To Design Principles  
090127 – Families in Crisis  
090128 – Careers In Mental Health  
130422 – Integrated Science – Biology  
130423 – Integrated Science – Chemistry  
130424 – Independent Study  
230803 – Study Hall  
270701 – Computer Science A  
270703 – Computer Science Principles  
270704 – Foundations of Computing  
270705 – Software Development  
270706 – Web Design and Development  
270707 - Cybersecurity  
270708 – Project Lead The Way – Computer Science Principles  
270709 – Project Lead The Way – Computer Science A  
270710 – Project Lead The Way – Computer Science Essentials  
270711 – Project Lead The Way - Cybersecurity  
320702 – AFNR Work-Based Learning Experience  
320703 – Arch and Constr Work-Based Learning Experience  
320704 – Arts, AV & Com Work-Based Learning Experience  
320705 – Business Mgmt Work-Based Learning Experience  
320706 – Ed & Train Work-Based Learning Experience  
320707 – Energy & Eng Work-Based Learning Experience

## COURSE CODES AND CLEARING ENDORSEMENTS

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320708 – Finance Work-Based Learning Experience  
320709 – Govt, Public Admin Work-Based Learning Experience  
320710 – Health Science Work-Based Learning Experience  
320711 – Hospitality & Tourism Work-Based Learning Experience  
320712 – Human Services/FACS Work-Based Learning Experience  
320713 – Information Technology Work-Based Learning Experience  
320714 – Law, Public Safety Work-Based Learning Experience  
320715 – Manufacturing Work-Based Learning Experience  
320716 – Marketing Work-Based Learning Experience  
320717 – Transportation Work-Based Learning Experience  
320718 – English/Language Arts Work-Based Learning Experience  
320719 – Mathematics Work-Based Learning Experience  
320720 – Science Work-Based Learning Experience  
320721 – Social Studies Work-Based Learning Experience

### **9. Course Codes with Name Changes**

090101 – changed to: Introduction to Human Services/FACS  
(was: Introduction to Human Services)  
090103 – changed to: Textile Constructions  
(was: Textiles Construction and Design)  
090107 - changed to: Fundamentals of Food and Nutrition  
(was: Human Food, Nutrition & Wellness)  
090109 – changed to: Home Design and Interiors  
(was: Housing and Interior Design)  
090116 – changed to: Interpersonal Relationships  
(was: Relationships)  
090117 – changed to: Parents and Family  
(was: Parenting Decisions)  
090206 – changed to: Fashion Design  
(was: Fashion Design and Marketing)  
099930-099934 – changed to: Human Services/FACS, other  
(was: Human Services, other)  
130420 – changed to: Integrated Science-Physical Science  
(was: Physical Science)  
270601 – changed to: Networking  
(was: Networking Systems)  
270604 – changed to: Foundations of Web Design  
(was: Web Design)  
270609 – changed to: Video Production  
(was: Media Production I)  
270610 – changed to: Media Production

## COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
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(was: Media Production II)  
270611 – changed to: Digital Design  
(was: Introduction to Digital Design)  
320700 – changed to: Other Work-Based Learning Class  
(was: Work-Based Learning/COOP/DO Class)  
320701 – changed to: Other Work-Based Learning Experience  
(was: Work-Based Learning/COOP/DO Experience)  
350001 – changed to: Introduction to Education and Training  
(was: Exploring Education and Training)  
350002 – changed to: Best Practices in Education and Training  
(was: Human Growth and Development)  
350010 – changed to: Field Experience in Education and Training  
(was: Experiencing Teaching)

### **10. Course Description changes**

077300 – Health Sciences I  
077301 – Health Sciences II  
077302 – Health Sciences III  
077303 – Personal and Community Medical Issues/Public Health  
077304 – Exploring The Clinical Lab  
077400 – Nursing Assistant/CAN  
077401 – Medical Aide  
077444 – Pharmacy Technician  
077446 – Phlebotomy Technician  
077500 – Introduction to Sports Medicine  
077600 – Medical Terminology  
077601 – Exercise Science  
077701 – Performance Nutrition  
077702 – Human Life Cycle Nutrition  
077800 – Health Information Technology  
077801 – Behavioral Health I  
077802 – Behavioral Health II  
077812 – Health Information Management and Ethics  
077900 – Allied Health and Medicine  
089930-089932 – Physical Science, Other  
090005 – Family and Consumer Sciences 6  
090006 – Family and Consumer Sciences 7  
090007 – Family and Consumer Sciences 8  
090101 – Introduction to Human Sciences/FACS  
(previously: Introduction to Human Sciences)

## **COURSE CODES AND CLEARING ENDORSEMENTS**

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090103 – Textile Construction  
(previously: Textiles Construction and Design)

090104 – Life and Career Readiness

090107 – Fundamentals of Food and Nutrition  
(previously: Human Food, Nutrition & Wellness)

090109 – Home Design and Interiors  
(previously: Housing and Interior Design)

090113 – Food Science

090116 – Interpersonal Relationships  
(previously: Relationship)

090117 – Parents and Families  
(previously: Parenting Decisions)

090119 – Child Development

090206 – Fashion Design  
(previously: Fashion Design and Marketing)

090207 – The Business to Textiles

090208 – Leadership and Ethics in Human Services

090209 – Consumer Economics

130420 – Integrated Science- Physical Science  
(previously: Physical Science)

270604 – Foundations of Web Design  
(previously: Web Design)

270613 – Advanced Digital Design

320700 – Other Work-Based Learning Class  
(previously: Work-Based Learning/COOP/DO Class)

320701 – Other Work-Based Learning Experience  
(previously: Work-Based Learning/COOP/DO Experience)

350001 – Introduction to Education and Training  
(previously: Exploring Education and Training)

350002 – Best Practices in Education and Training  
(previously: Human Growth and Development)

350010 – Field Experience in Education and Training  
(previously: Experiencing Teaching)

370021 – Culinary Skills 1

370022 – Culinary Skills 2

370030 – Prostart 1

370031 – Prostart 2

379930-379934 – Hospitality and Tourism, Other



## COURSE CODES AND CLEARING ENDORSEMENTS

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### Endorsement s codes have been ADDED/REMOVED for the following course codes

059930 – English Language Arts, Other

Added: 0512

077446 - Phlebotomy Technician

Added: 1303, 1301

Removed: 0903, 1501

019930-019934 – Agriculture, Food and Natural Resources, Other

Removed: 1810

359930-359934 – Education and Training, Other

Removed: 0903

### Section Name Changes

New: HUMAN SERVICES/FACS

old: Human Services/FCS

## Course Codes and Clearing Endorsements - Change Summary

**Version 7.0.0**

**June 8, 2016**

**Numerous changes have been made to course descriptions and clearing endorsements.  
Please check carefully before assigning a course code.**

### 1. Course Codes Removed

077700 - Clinical Nutrition (please refer to new code 077702 – Human Life Cycle Nutrition)

090001 – Exploratory Family and Consumer Sciences

090002 – Introduction to Family and Consumer Sciences

090003 – FCS and Career Essentials

139931 – 139934 – Science, Other (139930 - Science, Other is still available)

230601 – Spanish for Native Speakers (please refer to 2 new codes available:

060249 – Spanish For Native Speakers I

060250 – Spanish For Native Speakers II

### 2. New Course Codes

050052 - IB Language A – (English)

060108 - Latin III

060109 - Latin IV

060227 - IB Language A - French

## **COURSE CODES AND CLEARING ENDORSEMENTS**

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060228 - IB Language B – French  
060237 - IB Language A - German  
060238 - IB Language B - German  
060247 - IB Language A - Spanish  
060248 - IB Language B - Spanish  
060249 - Spanish for Native Speakers I  
060250 - Spanish for Native Speakers II  
077201 - PLTW Medical Detectives  
077446 - Phlebotomy Technician  
077702 - Human Life Cycle Nutrition  
077801 - Behavioral Health I  
077802 - Behavioral Health II  
077803 - PLTW Principles of Biomedical Science I  
077804 - PLTW Principles of Biomedical Science II  
077805 - PLTW Human Body Systems I  
077806 - PLTW Human Body Systems II  
077807 - PTLW Medical Interventions I  
077808 - PTLW Medical Interventions II  
077809 - PTLW Biomedical Innovation I  
077810 - PTLW Biomedical Innovation II  
077812 - Health Information Management and Ethics  
090005 - Family and Consumer Sciences 6  
090006 - Family and Consumer Sciences 7  
090007 - Family and Consumer Sciences 8  
110623 - IB Mathematical Studies  
110624 - IB Mathematics  
110625 - IB Further Mathematics - SL  
110626 - IB Mathematics & Computing - SL  
130195 – Advanced Robotics  
130211 - IB Biology  
130212 - Botany  
130213 - Genetics  
130214 - Micro Biology  
130215 - Zoology  
130216 - Conceptual Biology  
130217 - Particular Topics In Biology  
130218 - Biology - Other  
130308 - IB Chemistry  
130309 - Conceptual Chemistry  
130310 - Particular Topics In Chemistry  
130311 - Chemistry - Other

## COURSE CODES AND CLEARING ENDORSEMENTS

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130312 - Astronomy  
130313 - Earth and Space Science  
130314 - Particular Topics in Earth Science  
130315 - Earth Science - Other  
130316 - Marine Science  
130317 - Forensic Science  
130416 - IB Physics  
130417 - Conceptual Physics  
130418 - Particular Topics in Physics  
130419 - Physics - Other  
130420 - Integrated Science  
130421 – Applied Biology/Chemistry  
152000 - Holocaust History  
152001 - IB History  
152002 - IB Psychology  
152003 - IB Theory of Knowledge  
270702 - Advanced Placement Computer Science Principles  
320701 - Work-based Learning/Coop/DO Experience

### 3. **Course Codes with Name Changes**

060246 - changed to: Advanced Placement Spanish and Culture  
(was: Advanced Placement Spanish)  
077300 - changed to: Health Sciences I  
(was: Introduction to Health Sciences)  
077301 - changed to: Health Sciences II  
(was: Advanced Health Sciences)  
077302 - changed to: Health Sciences II  
(was: Health Sciences Careers)  
077700 - changed to: Human Life Cycle  
(was: Clinical Nutrition)  
090206 - changed to: Fashion Design and Marketing  
(was: Fashion Design)  
130201 - changed to: Biology  
(was: Biology I)  
130202 - changed to: Biology – Advanced Studies  
(was: Biology II)  
130301 - changed to: Chemistry  
(was: Chemistry I)  
130303 - changed to: Physics  
(was: Physics I)

## COURSE CODES AND CLEARING ENDORSEMENTS

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320700 - changed to: Work-Based Learning/COOP/DO Class  
(was: Work-Based Learning/COOP/DO)

#### 4. Course Description changes

060246 - Advanced Placement Spanish & Culture  
077402 - Emergency Medical Technician  
100160 - PLTW Principles of Engineering  
100161 - PLTW Introduction to Engineering Design  
100162 - PLTW Civil Engineering Design  
100163 - PLTW Engineering Design and Development  
100164 - PLTW Aerospace Engineering  
100165 - PLTW Biotechnical Engineering  
100403 - PLTW Digital Engineering  
101901 – PLTW Computer Integrated Manufacturing  
130202 - Biology – Advanced Studies (was previously Biology II)  
130302 - Chemistry – Advanced Studies  
130307 - Physics – Advanced Studies  
150800 - World History  
150820 - American History  
151110 - American Government  
320700 – Work-Based Learning/Coop/DO Class

#### 5. Endorsements code name changes

0700 – New: Health Sciences (Previous: Health Occupations)

#### 6. Endorsement s codes have been added for the following course codes

Health Sciences area and Skilled and Technical Sciences area have had multiple changes for courses – Please review each course carefully for changes.

270608 – Introduction to Media – 0304, 2701

270609 – Medical Production I – 0304, 2701

270610 – Media Production II – 0304, 2701